ITU-T

Q.4011.2

TELECOMMUNICATION STANDARDIZATION SECTOR OF ITU (08/2016)

SERIES Q: SWITCHING AND SIGNALLING

Testing specifications – Testing specifications for SIP-IMS

Closed user group using IP multimedia core network subsystem; Conformance test specification – Part 2: Test suite structure and test purposes; Network side

Recommendation ITU-T Q.4011.2



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 $For {\it further details, please refer to the list of ITU-T Recommendations.}$

Recommendation ITU-T Q.4011.2

Closed user group using IP multimedia core network subsystem; Conformance test specification – Part 2: Test suite structure and test purposes; Network side

Summary

Recommendation ITU-T Q.4011.2 provides the testing requirements for the supplementary service "Closed user group (CUG) using IP multimedia (IM) core network (CN) subsystem; Conformance Test Specification – Part 2: Test suite structure and test purposes (TSS&TP); Network side" (based on Recommendation ITU-T Q.3627 v.1).

The version number, v.1, indicates that this is version one of Recommendation ITU-T Q.4011.2, and that it relates to Release 10 of the relevant 3GPP/ETSI standard.

History

Edition	Recommendation	Approval	Study Group	Unique ID*
1.0	ITU-T Q.4011.2 v.1	2016-08-29	11	11.1002/1000/13005

Keywords

IMS, IP multimedia subsystem, malicious communication identification, MCID, testing, test suite structure and test purposes, TSS&TP.

^{*} To access the Recommendation, type the URL http://handle.itu.int/ in the address field of your web browser, followed by the Recommendation's unique ID. For example, http://handle.itu.int/11.1002/1000/11830-en.

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Recommendation ITU-T Q.4011.2

Closed user group using IP multimedia core network subsystem; Conformance test specification – Part 2: Test suite structure and test purposes; Network side

1 Scope

This Recommendation is Part 2 of a multi-part deliverable covering closed user group (CUG) using IP multimedia (IM) core network (CN) subsystem; Conformance test specification, as identified below:

Part 1: "Protocol implementation conformance statement (PICS)";

Part 2: "Test suite structure and test purposes (TSS&TP); Network side";

Part 3: "Test suite structure and test purposes (TSS&TP); User side".

2 References

The following ITU-T Recommendations and other references contain provisions which, through reference in this text, constitute provisions of this Recommendation. At the time of publication, the editions indicated were valid. All Recommendations and other references are subject to revision; users of this Recommendation are therefore encouraged to investigate the possibility of applying the most recent edition of the Recommendations and other references listed below. A list of the currently valid ITU-T Recommendations is regularly published. The reference to a document within this Recommendation does not give it, as a stand-alone document, the status of a Recommendation.

[ITU-T Q.3627 v.1] Recommendation ITU-T Q.3627 v.1 (2016): Closed user group using IP multimedia core network subsystem – Protocol Specification.

[ITU-T Q.4011.1 v.1] Recommendation ITU-T Q.4011.1 v.1 (2016): Closed user group using IP multimedia core network subsystem; Conformance test specification – Part 1: Protocol implementation conformance statement.

3 Definitions

3.1 Terms defined elsewhere

None.

3.2 Terms defined in this Recommendation

None.

4 Abbreviations and acronyms

This Recommendation uses the following abbreviations and acronyms:

AS Application Server

CD Communication Deflection

CDIV Communication Diversion service

CFB Communication Forwarding on Busy

CFNL Communication Forwarding on Not Logged-in

CFNR Communication Forwarding on no Reply

CFU Communication Forwarding Unconditional

CONF Conference calling

CSCF Call Session Control Function

CUG Closed User Group

ECT Explicit Communication Transfer

IA Incoming Access

ICB Incoming Communication Barring within a CUG

IMS IP Multimedia Subsystem

IP Internet Protocol

ISC Reference point between Serving CSCF and Application Server

IUT Implementation Under Test

NNI Network-to-Network Interface

OA Outgoing Access

OAE Outgoing Access, explicit request required

OAI Outgoing Access, implicit outgoing access for all communications

OCB Outgoing Communication Barring within a CUG

PIXIT Protocol Implementation extra Information for Testing

SIP Session Initiation Protocol

SUT System Under Test

TP Test Purposes

TSS Test Suite Structure

UE User Equipment

5 Conventions

None.

6 Test suite structure

Table 6-1 – Test suite structure

CUG			
	originating_AS		
		CUG without preference	CUG_N01_xxx
		CUG without preference + OAE	CUG_N02_xxx
		CUG without preference + OAI	CUG_N03_xxx
		CUG with preference	CUG_N04_xxx
		CUG with preference + OAE	CUG_N05_xxx
		CUG with preference + OAI	CUG_N06_xxx
		No CUG	CUG_N07_xxx
	terminating_AS		
	_	CUG with OA not allowed	CUG_N08_xxx
		CUG with OA allowed	CUG_N09_xxx
		No CUG	CUG_N10_xxx
	Services	CONF	CUG_N11_xxx
		CDIV	CUG_N12_xxx
		ECT	CUG_N13_xxx

6.1.1 Testing of the application server

The application server (AS) entity is responsible for performing and managing services. The reference point between serving call session control function (CSCF) and application server (ISC) interface is the appropriate access point for testing, see Figure 6.1.1-1.

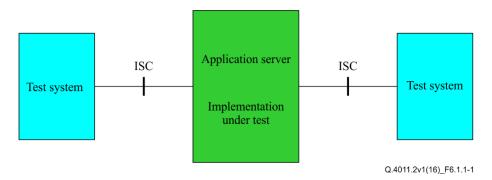


Figure 6.1.1-1 – Applicable interface to test AS functionalities

If the ISC interface is not accessible it is also possible to perform the test of the AS using any network-to-network interface (NNI) (i.e., Mw, Mw, Mx) (see Figure 6.1.1-2). In case only the Gm interface is accessible this interface can be used instead for testing, but the verification of all requirements may not be possible.

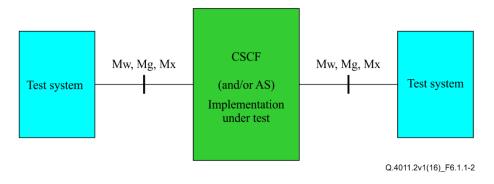


Figure 6.1.1-2 – Applicable interfaces for tests using a (generic) NNI

7 Test purposes

7.1 Introduction

For each test requirement a test purpose (TP) is defined.

7.1.1 TP naming convention

Test purposes (TPs) are numbered, starting at 001, within each group. Groups are organized according to the TSS. Additional references are added to identify the actual test suite and whether it applies to the network or the user (see Table 1).

Table 1 – TP identifier naming convention scheme

7.1.2 Test strategy

As the base standard [ITU-T Q.3627 v.1] contains no explicit requirements for testing, the TPs were generated as a result of an analysis of the base standard and the PICS specification [ITU-T Q.4011.1 v.1]. The criteria applied include the following:

• Whether or not a test case can be built from the TP is not considered.

7.2 Test purposes for closed user group

7.2.1 Actions at the AS of the originating user

7.2.1.1 CUG without preference

TSS		TP	CUG reference	Selection expression
CUG/orig	inating_AS/CUG without preference	CUG_N01_001	Clause 4.5.2.4 of	PICS 4.5.1/2 AND
			[ITU-T Q.3627 v.1]	PICS 4.7.1/1
				[ITU-T Q.4011.1 v.1]
Test pur				
	nout preference: INVITE with CUG index, so			
Ensure th	nat the system under test (SUT) on receipt of	of an INVITE reque	st containing an xml e	lement cug with
	cugCallOperation containing			
£	registered CUGIndex,			
torwards	an INVITE request containing an xml eleme			
	cugInterlockBinaryCode related to register	ed CUG Index,		
	networkIndicator (PIXIT) and cugCommunicationIndicator set to "11" (C	IC without outgoin	a accord)	
Precond			g access).	
rieconu	Options for registered CUG index:	10 000		
	Intra CUG restrictions: None designated (-	OCB)		
	Options for public identity in use:	005)		
	Preferential CUG: None designated			
	Outgoing access: not allowed			
SIP head	ler values:			
INVITE1:				
<cug></cug>				
	<cugcalloperation></cugcalloperation>			
	<pre><outgoingaccessrequest>FALSE</outgoingaccessrequest></pre>			
	<pre><cugindex>[registered</cugindex></pre>	CUC	}	index]
INIVITEO.				
INVITE2:				
	Disposition:;handling=required			
<cug></cug>	<networkindicator>[PIXIT]<td>ator></td><td></td><td></td></networkindicator>	ator>		
	<pre><cuginterlockbinarycode>[related to regis</cuginterlockbinarycode></pre>		/cuaInterlockBinaryCo	de>
	<cugcommunicationindicator>11</cugcommunicationindicator>			462
	200gOommamoattommatoator 172/00gOom	minameationinalea	1012	
Commer	nts:			
Test equ	ipment (Gm)	AS	Test equipment	(ISC, Mw)
INVITE1	→			

CUG/originating_AS/CUG without preference CUG_N01_002 Clause 4.5.2.4 of [ITU-T Q.3627 v.1] PICS 4.5.1/2 AND PICS 4.7.1/1 AND PICS 4.7.1/1 AND PICS 4.7.1/10 NITU-T Q.4011.1 v.1] Test purpose CUG without preference + OCB: INVITE with CUG index, unsuccessful. Ensure that the SUT on receipt of an INVITE request containing an xml element cug with cugCallOperation containing registered CUGIndex, rejects the INVITE request by sending a 603 Decline due to outgoing communication barring (OCB). Preconditions: Originating user has subscribed to CUG Options for registered CUG index: Intra CUG restrictions: OCB Options for public identity in use: Preferential CUG: None designated Outgoing access: not allowed SIP header values: INVITE: cugCallOperation>	TSS	TP	CUG reference	Selection expression
Test purpose CUG without preference + OCB: INVITE with CUG index, unsuccessful. Ensure that the SUT on receipt of an INVITE request containing an xml element cug with cugCallOperation containing registered CUGIndex, rejects the INVITE request by sending a 603 Decline due to outgoing communication barring (OCB). Preconditions: Originating user has subscribed to CUG Options for registered CUG index: Intra CUG restrictions: OCB Options for public identity in use: Preferential CUG: None designated Outgoing access: not allowed SIP header values: INVITE: <cug> <cugcalloperation></cugcalloperation></cug>	CUG/originating_AS/CUG without preference	CUG_N01_002	Clause 4.5.2.4 of	PICS 4.5.1/2 AND
Test purpose CUG without preference + OCB: INVITE with CUG index, unsuccessful. Ensure that the SUT on receipt of an INVITE request containing an xml element cug with cugCallOperation containing registered CUGIndex, rejects the INVITE request by sending a 603 Decline due to outgoing communication barring (OCB). Preconditions: Originating user has subscribed to CUG Options for registered CUG index: Intra CUG restrictions: OCB Options for public identity in use: Preferential CUG: None designated Outgoing access: not allowed SIP header values: INVITE: cug> cugCallOperation> cugIndex>[registered CUG index] cuglodex>[registered CUG index] cuglndex> Comments: Test equipment (Gm) INVITE AS INVITE O3 Decline AS INVITE A INVITE A INVITE A INVITE A INVITE A AS INVITE A A INVITE A A INVITE A A INVITE A			[ITU-T Q.3627 v.1]	PICS 4.7.1/1 AND
Test purpose CUG without preference + OCB: INVITE with CUG index, unsuccessful. Ensure that the SUT on receipt of an INVITE request containing an xml element cug with cugCallOperation containing registered CUGIndex, rejects the INVITE request by sending a 603 Decline due to outgoing communication barring (OCB). Preconditions: Originating user has subscribed to CUG Options for registered CUG index: Intra CUG restrictions: OCB Options for public identity in use: Preferential CUG: None designated Outgoing access: not allowed SIP header values: INVITE: <cug> <cugcalloperation></cugcalloperation></cug>				PICS 4.7.1/10
CUG without preference + OCB: INVITE with CUG index, unsuccessful. Ensure that the SUT on receipt of an INVITE request containing an xml element cug with cugCallOperation containing registered CUGIndex, rejects the INVITE request by sending a 603 Decline due to outgoing communication barring (OCB). Preconditions: Originating user has subscribed to CUG Options for registered CUG index: Intra CUG restrictions: OCB Options for public identity in use: Preferential CUG: None designated Outgoing access: not allowed SIP header values: INVITE: <cug> <ugcalloperation> <ugcalloperation> <ugcugcalloperation> <ugccugcalloperation> <ugccugcallope< td=""><td></td><td></td><td></td><td>[ITU-T Q.4011.1 v.1]</td></ugccugcallope<></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugccugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcalloperation></ugcalloperation></cug>				[ITU-T Q.4011.1 v.1]
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603 Decline ←		7.0		
IAUK →	ACK →			

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/CUG without preference	CUG_N01_003	Clause 4.5.2.4 of	PICS 4.5.1/2 AND
		[ITU-T Q.3627 v.1]	PICS 4.7.1/1
			[ITU-T Q.4011.1 v.1]
Test purpose			
CUG without preference: INVITE with unallocated C			
Ensure that the SUT on receipt of an INVITE reques	st containing an xml	element cug with	
cugCallOperation containing			
unregistered CUGIndex,			
rejects the INVITE request by sending a 403 Forbido		ated CUG index.	
Preconditions: Originating user has subscribed	to CUG		
Options for registered CUG index:			
Intra CUG restrictions: None designated (-	-OCB)		
Options for public identity in use:			
Preferential CUG: None designated			
Outgoing access: not allowed			
SIP header values:			
INVITE:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<pre><outgoingaccessrequest>FALSE</outgoingaccessrequest></pre>	outgoingAccessReq	juest>	
<cugindex>[unregistered</cugindex>			CUG]
Comments:			
Test equipment (Gm)	AS		
INVITE →			
403 Forbidden ←			
ACK →			

TSS CUG/originating_AS/CUG without preference	TP CUG_N01_004	CUG reference Clause 4.5.2.4 of [ITU-T Q.3627 v.1]	Selection expression PICS 4.5.1/2 AND PICS 4.7.1/1 [ITU-T Q.4011.1 v.1]
Test purpose			
CUG without preference: INVITE with CUG index an			ssful.
Ensure that the SUT on receipt of an INVITE request	t containing an xml	element cug with	
cugCallOperation containing			
outgoingAccessRequest = true and registered CUGIndex,			
forwards an INVITE request containing an xml eleme	ent cug with		
cugInterlockBinaryCode related to register	ed CUG index,		
networkIndicator (PIXIT) and			
cugCommunicationIndicator set to "11" (Cl	JG without outgoing	g access).	
Preconditions: Originating user has subscribed		,	
Options for registered CUG index:			
Intra CUG restrictions: None designated (-	OCB)		
Options for public identity in use:			
Preferential CUG: None designated			
Outgoing access: not allowed			
SIP header values:			
INVITE1:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<outgoingaccessrequest>TRUE<td>tgoingAccessReque</td><td>est></td><td></td></outgoingaccessrequest>	tgoingAccessReque	est>	
<cuglndex>[registered</cuglndex>	CUG		index]
INVITE2:			
Content-Disposition:;handling=required			
<cug></cug>			
<networkindicator>[registered CUG index]</networkindicator>	<pre> <!-- networkIndicator</pre--></pre>	>	
<cuginterlockbinarycode>[related to registed]</cuginterlockbinarycode>			de>
<cugcommunicationindicator>11</cugcommunicationindicator>	nmunicationIndicato	or>	
Comments:			
Test equipment (Gm)	AS	Test equipment	(ISC, Mw)
INVITE1 →	→		•

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/CUG without preference	CUG_N01_005	Clause 4.5.2.4 of	PICS 4.5.1/2 AND
		[ITU-T Q.3627 v.1]	PICS 4.7.1/1 AND
			PICS 4.7.1/10
			[ITU-T Q.4011.1 v.1]
Test purpose			
CUG without preference +OCB: INVITE with CUG inde			unsuccessful.
Ensure that the SUT on receipt of an INVITE request of	containing an xml	element cug with	
cugCallOperation containing			
outgoingAccessRequest = true and			
registered CUGIndex,			
rejects the INVITE request by sending a 603 Decline d		mmunication barring.	
Preconditions: Originating user has subscribed to	CUG		
Options for registered CUG index:			
Intra CUG restrictions: OCB			
Options for public identity in use:			
Preferential CUG: None designated			
Outgoing access: not allowed			
SIP header values:			
INVITE:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<pre><outgoingaccessrequest>TRUE</outgoingaccessrequest></pre>	•	est>	
<cugindex>[registered</cugindex>	CUG		index]
Comments:			
Test equipment (Gm)	AS		
INVITE →			
603 Decline			
ACK →			

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/CUG without preference	CUG_N01_006	clause 4.5.2.4 of	PICS 4.5.1/2 AND
		[ITU-T Q.3627 v.1]	PICS 4.7.1/1
			[ITU-T Q.4011.1 v.1]
Test purpose			
CUG without preference: INVITE with unallocated C			true, unsuccessful.
Ensure that the SUT on receipt of an INVITE reques	t containing an xml	element cug with	
cugCallOperation containing			
outgoingAccessRequest = true and			
unregistered CUGIndex,			
rejects the INVITE request by sending a 403 Forbido		ated CUG index.	
Preconditions: Originating user has subscribed	to CUG		
Options for registered CUG index:			
Intra CUG restrictions: None designated (-	OCB)		
Options for public identity in use:			
Preferential CUG: None designated			
Outgoing access: not allowed			
SIP header values:			
INVITE:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<outgoingaccessrequest>TRUE<td>utgoingAccessRequ</td><td>est></td><td></td></outgoingaccessrequest>	utgoingAccessRequ	est>	
<cuglndex>[unregistered</cuglndex>			CUG]
Comments:			
Test equipment (Gm)	3		
INVITE →			
403 Forbidden			
ACK →			

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/CUG without preference	CUG_N01_007	Clause 4.5.2.4 of	PICS 4.5.1/2 AND
		[ITU-T Q.3627 v.1]	PICS 4.7.1/1
			[ITU-T Q.4011.1 v.1]
Test purpose			
CUG without preference: INVITE without CUG index, u	ınsuccessful.		
Ensure that the SUT on receipt of an INVITE request c	containing an xml	element cug with	
cugCallOperation containing			
outgoingAccessRequest = false,			
rejects the INVITE request by sending a 403 Forbidder	n due to missing C	CUGindex.	
Preconditions: Originating user has subscribed to	CUG		
Options for registered CUG index:			
Intra CUG restrictions: None designated (-O	CB)		
Options for public identity in use:			
Preferential CUG: None designated			
Outgoing access: not allowed			
SIP header values:			
INVITE:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<pre><outgoingaccessrequest>FALSE</outgoingaccessrequest></pre>	goingAccessRequ	iest>	
Comments:			
Test equipment (Gm)	AS		
INVITE →			
403 Forbidden ←			
ACK →			

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/CUG without preference	CUG_N01_008	Clause 4.5.2.4 of	PICS 4.5.1/2 AND
		[ITU-T Q.3627 v.1]	PICS 4.7.1/1
		-	[ITU-T Q.4011.1 v.1]
Test purpose			
CUG without preference: INVITE without CUG index at	nd with outgoingA	ccessRequest = true,	unsuccessful.
Ensure that the SUT on receipt of an INVITE request of	ontaining an xml	element cug with	
cugCallOperation containing			
outgoingAccessRequest = true,			
rejects the INVITE request by sending a 403 Forbidder	n due to missing C	CUGindex.	
Preconditions: Originating user has subscribed to	CUG		
Options for registered CUG index:			
Intra CUG restrictions: None designated (-Od	CB)		
Options for public identity in use:			
Preferential CUG: None designated			
Outgoing access: not allowed			
SIP header values:			
INVITE:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<outgoingaccessrequest>TRUE<td>oingAccessReque</td><td>est></td><td></td></outgoingaccessrequest>	oingAccessReque	est>	
Comments:			
Test equipment (Gm)	AS		
INVITE →			
403 Forbidden ←			
ACK →			

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/CUG without preference	CUG_N01_009	Clause 4.5.2.4 of	PICS 4.5.1/2 AND
		[ITU-T Q.3627 v.1]	PICS 4.7.1/1
			[ITU-T Q.4011.1 v.1]
Test purpose			
CUG without preference: INVITE for non-CUG commu	nication, unsucce	ssful.	
Ensure that the SUT on receipt of an INVITE request of	ontaining no xml	element cug,	
rejects the INVITE request by sending a 403 Forbidder	n due to missing o	ug XML element.	
Preconditions: Originating user has subscribed to	CUG		
Options for registered CUG index:			
Intra CUG restrictions: None designated (-O	CB)		
Options for public identity in use:			
Preferential CUG: None designated			
Outgoing access: not allowed			
SIP header values:			
INVITE:			
No xml element <cug></cug>			
Comments:			
Test equipment (Gm)	AS		
INVITE →			
403 Forbidden ←			
ACK →			

TSS CUG/oriç	ginating_AS/CUG without preference + OAE	TP CUG_N02_001	CUG reference Clause 4.5.2.4 of [ITU-T Q.3627 v.1]	PICS 4.5.1/2 AND PICS 4.7.1/2 PICS 4.7.1/2 [ITU-T Q.4011.1 v.1]
	rpose hout preference + OAE: INVITE with CUG ind hat the SUT on receipt of an INVITE request of cugCallOperation containing registered CUGIndex,		element cug with	
forwards	an INVITE request containing an xml element cugInterlockBinaryCode related to registered networkIndicator (PIXIT) and cugCommunicationIndicator set to "11" (CUC	d CUG index,	g access).	
Precond	litions: Originating user has subscribed to		g 	
	Options for registered CUG index:	05)		
	Intra CUG restrictions: None designated (-O	CB)		
	Options for public identity in use:			
	Preferential CUG: None designated			
OID I	Outgoing access: allowed per communication	<u>n</u>		
-	der values:			
INVITE1:				
<cug></cug>				
	<cugcalloperation></cugcalloperation>			
	<pre><outgoingaccessrequest>FALSE</outgoingaccessrequest></pre>			
	<pre><cugindex>[registered /</cugindex></pre>	CUG	1	index]
1				
INVITE2:	:			
Content-	Disposition:;handling=required			
<cug></cug>	pooo,agoqaoa			
	<pre><networkindicator>[PIXIT]<!-- networkIndicator <cugInterlockBinaryCode-->[related to registe <cugcommunicationindicator>11</cugcommunicationindicator></networkindicator></pre>	red CUG index] </td <td></td> <td>ode></td>		ode>
Comme				
Test equ	ıipment (Gm)	AS	Test equipment	t (ISC, Mw)

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/CUG without preference + OAE	CUG_N02_002	Clause 4.5.2.4 of	PICS 4.5.1/2 AND
COG/originating_AG/COG without preference + OAE	COG_1\02_002	[ITU-T Q.3627 v.1]	PICS 4.7.1/2 AND
		[110-1 Q.3021 V.1]	PICS 4.7.1/10
			[ITU-T Q.4011.111 v.1]
Test purpose			[[10 1 Q.+011.111 V.1]
CUG without preference + OAE + OCB: INVITE with C	SIG index unsucc	Pessful	
Ensure that the SUT on receipt of an INVITE request of			
cugCallOperation containing	ontaining an Ann v	Sicinoni dag with	
registered CUGIndex,			
rejects the INVITE request by sending a 603 Decline d	lue to Outgoing Co	ommunication Barring	1.
Preconditions: Originating user has subscribed to			5 -
Options for registered CUG index:			
Intra CUG restrictions: OCB			
Options for public identity in use:			
Preferential CUG: None designated			
Outgoing access: allowed per communicatio	n		
SIP header values:			
INVITE:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<pre><outgoingaccessrequest>FALSE</outgoingaccessrequest></pre>	goingAccessRequ	iest>	
<cugindex>[registered</cugindex>	CUG		index]
Comments:			
Test equipment (Gm)	AS		
INVITE -			
603 Decline			
ACK →			

CUG/originating_AS/CUG without preference + OAE		CUG reference	Selection expression
2 2 3, 3g., 10, 2 2 2 111110 11 11 10 10 10 10 10 10 10 10 10	CUG_N02_003	Clause 4.5.2.4 of	PICS 4.5.1/2 AND
		[ITU-T Q.3627 v.1]	PICS 4.7.1/2
			[ITU-T Q.4011.1 v.1]
Test purpose			
CUG without preference + OAE: INVITE with unalloc	,		
Ensure that the SUT on receipt of an INVITE request	t containing an xml	element cug with	
cugCallOperation containing			
unregistered CUGIndex,			
rejects the INVITE request by sending a 403 Forbidd		ated CUG index.	
Preconditions: Originating user has subscribed to 0	CUG		
Options for registered CUG index:			
Intra CUG restrictions: None designated (-	OCB)		
Options for public identity in use:			
Preferential CUG: None designated			
Outgoing access: allowed per communicat	ion		
SIP header values:			
INVITE:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<outgoingaccessrequest>FALSE<td>utgoingAccessRequ</td><td>uest></td><td></td></outgoingaccessrequest>	utgoingAccessRequ	uest>	
<cuglndex>[unregistered</cuglndex>			CUG]
403 Forbidden			
Reason:			
Comments:			
Test equipment (Gm)	AS		
INVITE -			
403 Forbidden ←			
ACK →			

CUG/originating_AS/CUG without preference + OAE	TSS		TP	CUG reference	Selection expression
Test purpose CUG without preference + OAE: INVITE with CUG index and outgoingAccessRequest = true, successful non CUG communication. Ensure that the SUT on receipt of an INVITE request containing an xml element cug with cugCallOperation containing outgoingAccessRequest = true and registered CUGIndex, forwards an INVITE request containing an xml element cug with cugInterlockBinaryCode related to registered CUG index, networkIndicator (PIXIT) and cugCommunicationIndicator set to "10" (CUG with outgoing access). Preconditions: Originating user has subscribed to CUG Options for registered CUG index: Intra CUG restrictions: None designated (-OCB) Options for public identity in use: Preferential CUG: None designated Outgoing access: allowed per communication SIP header values: INVITE1: <cug> <ug> <ugcalloperation> <ugcccommunicationindicator> <ugcalloperation> <ugcccccccccccccccccccccccccccccccccccc< td=""><td></td><td>inating AS/CUG without preference + OAF</td><td></td><td></td><td></td></ugcccccccccccccccccccccccccccccccccccc<></ugcalloperation></ugcccommunicationindicator></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ug></cug>		inating AS/CUG without preference + OAF			
Test purpose CUG without preference + OAE: INVITE with CUG index and outgoingAccessRequest = true, successful non CUG communication. Ensure that the SUT on receipt of an INVITE request containing an xml element cug with cugCallOperation containing outgoingAccessRequest = true and registered CUGIndex, forwards an INVITE request containing an xml element cug with cugInterlockBinaryCode related to registered CUG index, networkIndicator (PIXIT) and cugCommunicationIndicator set to "10" (CUG with outgoing access). Preconditions: Originating user has subscribed to CUG Options for registered CUG index: Intra CUG restrictions: None designated (-OCB) Options for public identity in use: Preferential CUG: None designated Outgoing access: allowed per communication SIP header values: INVITE1: <cug> <td>000,0119</td><td>maxing_, to, ooo manout professiones : o, te</td><td>000_1102_001</td><td></td><td></td></cug>	000,0119	maxing_, to, ooo manout professiones : o, te	000_1102_001		
Test purpose CUG without preference + OAE: INVITE with CUG index and outgoingAccessRequest = true, successful non CUG communication. Ensure that the SUT on receipt of an INVITE request containing an xml element cug with cugCallOperation containing outgoingAccessRequest = true and registered CUGIndex, forwards an INVITE request containing an xml element cug with cugInterlockBinaryCode related to registered CUG index, networkIndicator (PIXIT) and cugCommunicationIndicator set to "10" (CUG with outgoing access). Preconditions: Originating user has subscribed to CUG Options for registered CUG index: Intra CUG restrictions: None designated (-OCB) Options for public identity in use: Preferential CUG: None designated (-OCB) Options for public identity in use: Preferential CUG: None designated Outgoing access: allowed per communication SIP header values: INVITE1: <cug> <cugcalloperation> </cugcalloperation> <td></td><td></td><td></td><td>[110 1 0.0027 7.1]</td><td></td></cug>				[110 1 0.0027 7.1]	
CUG without preference + OAE: INVITE with CUG index and outgoingAccessRequest = true, successful non CUG communication. Ensure that the SUT on receipt of an INVITE request containing an xml element cug with cugCallOperation containing outgoingAccessRequest = true and registered CUGIndex, forwards an INVITE request containing an xml element cug with cugInterlockBinaryCode related to registered CUG index, networkIndicator (PIXIT) and cugCommunicationIndicator set to "10" (CUG with outgoing access). Preconditions: Originating user has subscribed to CUG Options for registered CUG index: Intra CUG restrictions: None designated (-OCB) Options for public identity in use: Preferential CUG: None designated Outgoing access: allowed per communication SIP header values: INVITE1: <cug> <ugcalloperation> <ugcugcalloperation> <ugcccircle> <ugcugcalloperation> <ugccccircle> <ugcugcalloperation> <ugcccccccccccccccccccccccccccccccccccc< td=""><td>Test purp</td><td>oose</td><td></td><td><u> </u></td><td>Tree and tree and</td></ugcccccccccccccccccccccccccccccccccccc<></ugcugcalloperation></ugccccircle></ugcugcalloperation></ugcccircle></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcalloperation></cug>	Test purp	oose		<u> </u>	Tree and tree and
Ensure that the SUT on receipt of an INVITE request containing an xml element cug with cugCallOperation containing outgoingAccessRequest = true and registered CUGIndex, forwards an INVITE request containing an xml element cug with cugInterlockBinaryCode related to registered CUG index, networkIndicator (PIXIT) and cugCommunicationIndicator set to "10" (CUG with outgoing access). Preconditions: Originating user has subscribed to CUG Options for registered CUG index: Intra CUG restrictions: None designated (-OCB) Options for public identity in use: Preferential CUG: None designated Outgoing access: allowed per communication SIP header values: INVITE1: <cug> <ugcalloperation> <ugl> <ugcalloperation> <ugcugcalloperation> <ugcugcallopera< td=""><td></td><td></td><td>index and outgoin</td><td>gAccessRequest = i</td><td>true, successful non CUG</td></ugcugcallopera<></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcugcalloperation></ugcalloperation></ugl></ugcalloperation></cug>			index and outgoin	gAccessRequest = i	true, successful non CUG
cugCallOperation containing outgoingAccessRequest = true and registered CUGIndex, forwards an INVITE request containing an xml element cug with cugInterlockBinaryCode related to registered CUG index, networkIndicator (PIXIT) and cugCommunicationIndicator set to "10" (CUG with outgoing access). Preconditions: Originating user has subscribed to CUG Options for registered CUG index: Intra CUG restrictions: None designated (-OCB) Options for public identity in use: Preferential CUG: None designated (-OCB) Options for public identity in use: Preferential CUG: None designated Outgoing access: allowed per communication SIP header values: INVITE1: <cug> <ugcalloperation> <ugcccolored <ugcccolored="" <ugcccolored<="" td=""><td>communic</td><td>cation.</td><td>· ·</td><td></td><td></td></ugcccolored></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></cug>	communic	cation.	· ·		
outgoingAccessRequest = true and registered CUGIndex, forwards an INVITE request containing an xml element cug with cugInterlockBinaryCode related to registered CUG index, networkIndicator (PIXIT) and cugCommunicationIndicator set to "10" (CUG with outgoing access). Preconditions: Originating user has subscribed to CUG Options for registered CUG index: Intra CUG restrictions: None designated (-OCB) Options for public identity in use: Preferential CUG: None designated Outgoing access: allowed per communication SIP header values: INVITE1: <cug> <ugcalloperation> <ugcccolor <ugc<="" <ugcccolor="" td=""><td>Ensure th</td><td>at the SUT on receipt of an INVITE request of</td><td>containing an xml</td><td>element cug with</td><td></td></ugcccolor></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></cug>	Ensure th	at the SUT on receipt of an INVITE request of	containing an xml	element cug with	
registered CUGIndex, forwards an INVITE request containing an xml element cug with					
forwards an INVITE request containing an xml element cug with		outgoingAccessRequest = true and			
cugInterlockBinaryCode related to registered CÜĞ index, networkIndicator (PIXIT) and cugCommunicationIndicator set to "10" (CUG with outgoing access). Preconditions: Originating user has subscribed to CUG Options for registered CUG index: Intra CUG restrictions: None designated (-OCB) Options for public identity in use: Preferential CUG: None designated Outgoing access: allowed per communication SIP header values: INVITE1: <cug> <ugcalloperation> <ugccalloperation> <u< td=""><td></td><td>registered CUGIndex,</td><td></td><td></td><td></td></u<></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></cug>		registered CUGIndex,			
networkIndicator (PIXIT) and cugCommunicationIndicator set to "10" (CUG with outgoing access). Preconditions: Originating user has subscribed to CUG Options for registered CUG index: Intra CUG restrictions: None designated (-OCB) Options for public identity in use: Preferential CUG: None designated Outgoing access: allowed per communication SIP header values: INVITE1: <cug> <ugcalloperation> <ugccalloperation> <ugccalloperat< td=""><td></td><td></td><td></td><td></td><td></td></ugccalloperat<></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></cug>					
cugCommunicationIndicator set to "10" (CUG with outgoing access). Preconditions: Originating user has subscribed to CUG Options for registered CUG index: Intra CUG restrictions: None designated (-OCB) Options for public identity in use: Preferential CUG: None designated Outgoing access: allowed per communication SIP header values: INVITE1: <cug> <ugcalloperation> <ugccalloperation> <ugccallop< td=""><td></td><td>cugInterlockBinaryCode related to registered</td><td>d CUG index,</td><td></td><td></td></ugccallop<></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></cug>		cugInterlockBinaryCode related to registered	d CUG index,		
Preconditions: Originating user has subscribed to CUG Options for registered CUG index: Intra CUG restrictions: None designated (-OCB) Options for public identity in use: Preferential CUG: None designated Outgoing access: allowed per communication SIP header values: INVITE1: <cug> <ugcalloperation> <ugcalloperation> <ugindex>[registered CUG index] </ugindex></ugcalloperation></ugcalloperation></cug> <ugcalloperation> <ugcalloperation> <ugcci> <ugccci> <ugcccci> <ugccci> <ugcccci> <ugcccci> <ugcccci> <ugcccci> <ugccccci> <ugcccccci> <ugcccccccccccccccccccccccccccccccccccc< td=""><td></td><td>networkIndicator (PIXIT) and</td><td></td><td></td><td></td></ugcccccccccccccccccccccccccccccccccccc<></ugcccccci></ugccccci></ugcccci></ugcccci></ugcccci></ugcccci></ugccci></ugcccci></ugccci></ugccci></ugccci></ugccci></ugccci></ugccci></ugccci></ugccci></ugccci></ugccci></ugccci></ugccci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcci></ugcalloperation></ugcci></ugcalloperation></ugcci></ugcalloperation></ugcci></ugcalloperation></ugcci></ugcalloperation></ugcci></ugcalloperation></ugcci></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation>		networkIndicator (PIXIT) and			
Options for registered CUG index: Intra CUG restrictions: None designated (-OCB) Options for public identity in use: Preferential CUG: None designated Outgoing access: allowed per communication SIP header values: INVITE1: <cug> <ugcalloperation> <ugccalloperation> <u< td=""><td></td><td></td><td></td><td>ccess).</td><td></td></u<></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></cug>				ccess).	
Intra CUG restrictions: None designated (-OCB) Options for public identity in use: Preferential CUG: None designated Outgoing access: allowed per communication SIP header values: INVITE1: <cug></cug>			UG		
Options for public identity in use: Preferential CUG: None designated Outgoing access: allowed per communication SIP header values: INVITE1: <cug> <ugcalloperation></ugcalloperation></cug>					
Preferential CUG: None designated Outgoing access: allowed per communication SIP header values: INVITE1: <cug></cug>			CB)		
Outgoing access: allowed per communication SIP header values: INVITE1: <cug></cug>					
SIP header values: INVITE1: <cug></cug>					
INVITE1: <cug></cug>		Outgoing access: allowed per communicatio	n		
<pre><cug></cug></pre>		er values:			
<pre></pre>	INVITE1:				
<pre></pre>	<cug></cug>				
<pre></pre>		• .			
<pre> INVITE2: <cug></cug></pre>				est>	
<pre> INVITE2: <cug></cug></pre>			CUG		index]
INVITE2: <cug></cug>					
<pre><cug></cug></pre>					
<pre><cug></cug></pre>	INVITE2				
<pre></pre>					
<pre></pre>	louge	<networkindicator>[PIXIT]<td>or></td><td></td><td></td></networkindicator>	or>		
<pre></pre>				cuaInterlockBinaryCo	de>
Comments: Test equipment (Gm) AS Test equipment (ISC, Mw)					
Comments: Test equipment (Gm) AS Test equipment (ISC, Mw)					
Test equipment (Gm) AS Test equipment (ISC, Mw)		its:			
			AS	Test equipment	(ISC. Mw)
	INVITE1	→	_		. (,,

CUG/originating_AS/CUG without preference + OAE	CUG_N02_005	Clause 4.5.2.4 of	PICS 4.5.1/2 AND
		[ITU-T Q.3627 v.1]	PICS 4.7.1/2
			[ITU-T Q.4011.1 v.1]
Test purpose			
CUG without preference + OAE + OCB within CUC	G: INVITE with Cl	JG index and outgo	ingAccessRequest = true,
successful.			
Ensure that the SUT on receipt of an INVITE request	containing an xml	element cug with	
cugCallOperation containing			
outgoingAccessRequest = true and			
registered CUGIndex,			
forwards the INVITE request containing no xml eleme			
Preconditions: Originating user has subscribed to C	UG		
Options for registered CUG index:			
Intra CUG restrictions: OCB within CUG			
Options for public identity in use:			
Preferential CUG: None designated			
Outgoing access: allowed per communication	on		
SIP header values:			
INVITE1:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<outgoingaccessrequest>TRUE<td></td><td>est></td><td></td></outgoingaccessrequest>		est>	
<cuglndex>[registered</cuglndex>	CUG		index]
INVITE2:			
No xml element <cug></cug>			
Comments:			
Test equipment (Gm)	AS	Test equipment	(ISC, Mw)
INVITE1 →	→	INVITE2	-

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/CUG without preference + OAE	CUG_N02_006	Clause 4.5.2.4 of	PICS 4.5.1/2 AND
		[ITU-T Q.3627 v.1]	PICS 4.7.1/2
			[ITU-T Q.4011.1 v.1]
Test purpose			
CUG without preference + OAE: INVITE with unallocated	ated CUG index an	nd outgoingAccessRe	quest = true, unsuccessful.
Ensure that the SUT on receipt of an INVITE request	containing an xml	element cug with	
cugCallOperation containing			
outgoingAccessRequest = true and			
unregistered CUGIndex,			
rejects the INVITE request by sending a 403 Forbidde		ated CUG index.	
Preconditions: Originating user has subscribed to C	CUG		
Options for registered CUG index:			
Intra CUG restrictions: None designated (-C	DCB)		
Options for public identity in use:			
Preferential CUG: None designated			
Outgoing access: allowed per communication	on		
SIP header values:			
INVITE:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<pre><outgoingaccessrequest>TRUE</outgoingaccessrequest>TRUE</pre>	goingAccessRequ	est>	CLICI /avaladas
<cuglndex>[unregistered</cuglndex>			CUG]
403 Forbidden			
Reason:			
Comments:			
Test equipment (Gm)	AS		
INVITE →			
403 Forbidden			
ACK →			

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/CUG without preference + OAE	CUG_N02_007	Clause 4.5.2.4 of	PICS 4.5.1/2 AND
		[ITU-T Q.3627 v.1]	PICS 4.7.1/2
			[ITU-T Q.4011.1 v.1]
Test purpose			
CUG without preference + OAE: INVITE without CUG			ot allowed.
Ensure that the SUT on receipt of an INVITE request c	ontaining an xml	element cug with	
cugCallOperation containing			
outgoingAccessRequest = false,			
rejects the INVITE request by sending a 403 Forbidder		access not allowed.	
Preconditions: Originating user has subscribed to CL	JG		
Options for registered CUG index:			
Intra CUG restrictions: None designated (-Od	CB)		
Options for public identity in use:			
Preferential CUG: None designated			
Outgoing access: allowed per communication	<u> </u>		
SIP header values:			
INVITE:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<pre><outgoingaccessrequest>FALSE</outgoingaccessrequest></pre>	goingAccessRequ	iest>	
403 Forbidden			
Reason:			
Comments:			
Test equipment (Gm)	AS		
INVITE -	AU		
403 Forbidden			
ACK →			
7			

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/CUG without preference + OAE	CUG_N02_008	Clause 4.5.2.4 of	PICS 4.5.1/2 AND
5 5-		[ITU-T Q.3627 v.1]	PICS 4.7.1/2
			[ITU-T Q.4011.1 v.1]
Test purpose	•		-
CUG without preference + OAE: INVITE without CUG access allowed.	index and with out	goingAccessRequest	= true, successful outgoing
Ensure that the SUT on receipt of an INVITE request	containing an xml	element cua with	

cugCallOperation containing
 outgoingAccessRequest = true,

forwards the INVITE request containing no xml element cug due to outgoing access allowed.

Preconditions: Originating user has subscribed to CUG

Options for registered CUG index:

Intra CUG restrictions: None designated (-OCB)

Options for public identity in use: Preferential CUG: None designated

Outgoing access: allowed per communication

SIP header values:

INVITE1:

<cug>

<cugCallOperation>

<outgoingAccessRequest>TRUE</outgoingAccessRequest>

</cugCallOperation>

</cug>

INVITE2:

No xml element <cug>

Comments:

Test equipment (Gm)

INVITE1

AS

Test equipment (ISC, Mw)

→ INVITE2

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/CUG without preference + OAE	CUG_N02_009	Clause 4.5.2.4 of	PICS 4.5.1/2 AND
		[ITU-T Q.3627 v.1]	PICS 4.7.1/2
			[ITU-T Q.4011.1 v.1]
Test purpose			
CUG without preference + OAE: INVITE for non-CUG	communication, u	ınsuccessful.	
Ensure that the SUT on receipt of an INVITE request of	containing no xml	element cug,	
rejects the INVITE request by sending a 403 Forbidde	n.		
Preconditions: Originating user has subscribed to	CUG		
Options for registered CUG index:			
Intra CUG restrictions: None designated (-O	CB)		
Options for public identity in use:			
Preferential CUG: None designated			
Outgoing access: allowed per communication	n		
SIP header values:			
INVITE:			
No xml element <cug></cug>			
403 Forbidden			
Reason:			
Comments:			
Test equipment (ISC)	AS		
INVITE -			
403 Forbidden ←			
ACK →			

7.2.1.3 CUG without preference + OAI

CUG/originating_AS/CUG v	vithout preference + OAI	CUG_N03_001	Clause 4.5.2.4 of	PICS 4.5.1/2 AND
Foot numbers			[ITU-T Q.3627 v.1]	PICS 4.7.1/3
Faat miirmaaa				[ITU-T Q.4011.1 v.1]
Test purpose	0.4. W.W.TE ::/ 0.110 :			
CUG without preference +				
Ensure that the SUT on rec	•	containing an xml	element cug with	
cugCallOperation	•			
registered C orwards an INVITE reques		nt cua with		
	yCode related to register			
networkIndicator		ed COG ilidex,		
	onIndicator set to "10" (CL	IG with outgoing a	ccess)	
	ting user has subscribed t			
	stered CUG index:			
	ions: None designated (-0	OCB)		
	ic identity in use:			
	None designated			
Outgoing access:	allowed permanent			
SIP header values:				
NVITE1:				
cug>				
<cugcalloperatio< td=""><td></td><td></td><td></td><td></td></cugcalloperatio<>				
0 0	cessRequest>FALSE <td></td> <td></td> <td></td>			
<cuglndex>[</cuglndex>		CUG	i	index]
<td>on></td> <td></td> <td></td> <td></td>	on>			
NVITE2:				
cug>				
	>[PIXIT] networkIndica</td <td>ator></td> <td></td> <td></td>	ator>		
	ryCode>[related to regist			ode>
•	ionIndicator>10 <td>nmunicationIndicate</td> <td>or></td> <td></td>	nmunicationIndicate	or>	
Comments:		AC	Took amular	4 (ISC March
Γest equipment (Gm) N∀ITE1	→	AS	Test equipmen ■ INVITE2	(ISC, WW)

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/CUG without preference + OAI	CUG_N03_002	Clause 4.5.2.4 of	PICS 4.5.1/2 AND
		[ITU-T Q.3627 v.1]	PICS 4.7.1/3
			[ITU-T Q.4011.1 v.1]
Test purpose			
CUG without preference + OAI and OCB within CUG:		,	
Ensure that the SUT on receipt of an INVITE request of	containing an xml	element cug with	
cugCallOperation containing			
registered CUGIndex,			
forwards an INVITE request containing no xml elemen			
Preconditions: Originating user has subscribed to	CUG		
Options for registered CUG index:			
Intra CUG restrictions: OCB within CUG			
Options for public identity in use:			
Preferential CUG: None designated			
Outgoing access: allowed permanent SIP header values:			
INVITE1:			
<pre><pre></pre></pre> <pre></pre>			
<pre><cugcalloperation></cugcalloperation></pre>			
<pre><outgoingaccessrequest>FALSE</outgoingaccessrequest></pre>	aoina∆ccessReau	est>	
<pre><cuglndex>[registered</cuglndex></pre>	CUG	10012	index]
	000		index]
, 3 d g			
INVITE2:			
No xml element <cug></cug>			
Comments:			
Test equipment (Gm)	AS	Test equipment	(ISC, Mw)
INVITE1 →	→	INVITE2	
	·	·	·

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/CUG without preference + OAI	CUG_N03_003	Clause 4.5.2.4 of	PICS 4.5.1/2 AND
		[ITU-T Q.3627 v.1]	PICS 4.7.1/3
			[ITU-T Q.4011.1 v.1]
Test purpose			
CUG without preference + OAI: INVITE with unregister			
Ensure that the SUT on receipt of an INVITE request of	containing an xml	element cug with	
cugCallOperation containing			
unregistered CUGIndex,		-41-0110 :1	
rejects the INVITE request by sending a 403 Forbidde		ated CUG Index.	
Preconditions: Originating user has subscribed to	CUG		
Options for registered CUG index:	CD)		
Intra CUG restrictions: None designated (-O Options for public identity in use:	CB)		
Preferential CUG: None designated			
Outgoing access: allowed permanent			
SIP header values:			
INVITE:			
<pre><cug></cug></pre>			
<pre><cugcalloperation></cugcalloperation></pre>			
<pre><outgoingaccessrequest>FALSE</outgoingaccessrequest></pre>	aoinaAccessReau	iest>	
<pre><cugindex>[unregistered</cugindex></pre>	99		CUG]
			. 0
403 Forbidden			
Reason:			
Comments:	40		
Test equipment (Gm)	AS		
INVITE 403 Forbidden ←			
403 Forbidden ← ACK →			
ACR 7			

TSS CUG/origi	nating_AS/CUG without preference + OAI	TP CUG_N03_004	CUG reference Clause 4.5.2.4 of [ITU-T Q.3627 v.1]	Selection expression PICS 4.5.1/2 AND PICS 4.7.1/3 [ITU-T Q.4011.1 v.1]
Test purp	oose			
	out preference + OAI: INVITE with CUG inde			successful.
	at the SUT on receipt of an INVITE request c	ontaining an xml	element cug with	
	cugCallOperation containing			
	outgoingAccessRequest = true and			
	registered CUGIndex,			
	he INVITE request containing an xml elemen			
	cugInterlockBinaryCode related to registered	I CUG index,		
	networkIndicator (PIXIT) and		,	
	cugCommunicationIndicator set to "10" (CUC		cess).	
Precondi		CUG		
	Options for registered CUG index:	CD)		
	Intra CUG restrictions: None designated (-OG Options for public identity in use:	CD)		
	Preferential CUG: None designated			
	Outgoing access: allowed permanent			
	er values:			
INVITE1:	er values.			
<cug></cug>				
	<cugcalloperation></cugcalloperation>			
	<pre><outgoingaccessrequest>TRUE</outgoingaccessrequest></pre>	oingAccessReque	est>	
	<pre><cuglndex>[</cuglndex></pre>	registered	5017	CUG]
		. 0 9.010.0 0		ood a sagaaan
INVITE2:				
<cug></cug>				
=	<networkindicator>[PIXIT]<!-- networkIndicator</td--><td>or></td><td></td><td></td></networkindicator>	or>		
	<cuginterlockbinarycode>[related to register</cuginterlockbinarycode>	red CUG index] </td <td>cugInterlockBinaryCo</td> <td>de></td>	cugInterlockBinaryCo	de>
	<cugcommunicationindicator>10</cugcommunicationindicator> 10 <td>nunicationIndicato</td> <td>or></td> <td></td>	nunicationIndicato	or>	
Commen				
Test equi INVITE1	pment (Gm) →	AS -	Test equipment INVITE2	(ISC, Mw)

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/CUG without preference + OAI	CUG_N03_005	Clause 4.5.2.4 of	PICS 4.5.1/2 AND
		[ITU-T Q.3627 v.1]	PICS 4.7.1/3
			[ITU-T Q.4011.1 v.1]
Test purpose			
CUG without preference + OAI and OCB within CUC	G: INVITE with C	UG index and outgo	ingAccessRequest = true,
successful.			
Ensure that the SUT on receipt of an INVITE request of	ontaining an xml	element cug with	
cugCallOperation containing			
outgoingAccessRequest = true and			
registered CUGIndex,			
forwards an INVITE request containing no xml element			
Preconditions: Originating user has subscribed to	CUG		
Options for registered CUG index:			
Intra CUG restrictions: OCB within CUG			
Options for public identity in use:			
Preferential CUG: None designated			
Outgoing access: allowed permanent			
SIP header values:			
INVITE1:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<pre><outgoingaccessrequest>TRUE</outgoingaccessrequest></pre>	oingAccessReque	est>	
<cugindex>[registered</cugindex>	CUG		index]
INVITE2:			
No xml element <cug></cug>			
Comments:			
Test equipment (Gm)	AS	Test equipment	(ISC. Mw)
INVITE1	····	• •	(,)
	<u>-</u>		

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/CUG without preference + OAI	CUG_N03_006	Clause 4.5.2.4 of	PICS 4.5.1/2 AND
		[ITU-T Q.3627 v.1]	PICS 4.7.1/3
			[ITU-T Q.4011.1 v.1]
Test purpose			
CUG without preference + OAI: INVITE with unregiste			quest = true, unsuccessful.
Ensure that the SUT on receipt of an INVITE request	containing an xml	element cug with	
cugCallOperation containing			
outgoingAccessRequest = true and			
unregistered CUGIndex,			
rejects the INVITE request by sending a 403 Forbidde		ated CUG index.	
Preconditions: Originating user has subscribed to C	UG		
Options for registered CUG index:			
Intra CUG restrictions: None designated (-OCB)			
Options for public identity in use:			
Preferential CUG: None designated			
Outgoing access: allowed permanent SIP header values:			
INVITE:			
· · · · · · — ·			
<pre><cug></cug></pre>			
cugoalioperation> cutgoingAccessRequest>TRUE	noing Access Regul	oct>	
coulgoing Accessive questo TNO E Voute	goingAccessivequ	631/	CUG]
			CCC] \rangeriacks
403 Forbidden			
Reason:			
Comments:	40		
Test equipment (Gm) INVITE →	AS		
INVITE 403 Forbidden ←			
ACK			
AUN			

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/CUG without preference + OAI	CUG_N03_007	Clause 4.5.2.4 of	PICS 4.5.1/2 AND
		[ITU-T Q.3627 v.1]	PICS 4.7.1/3
			[ITU-T Q.4011.1 v.1]
Test purpose			
CUG without preference + OAI: INVITE without CUG i	ndex, successful o	outgoing access allow	red.
Ensure that the SUT on receipt of an INVITE request of	containing an xml	element cug with	
cugCallOperation containing			
outgoingAccessRequest = false,			
forwards an INVITE request containing no xml elemen			
Preconditions: Originating user has subscribed to	CUG		
Options for registered CUG index:			
Intra CUG restrictions: None designated (-O	CB)		
Options for public identity in use:			
Preferential CUG: None designated			
Outgoing access: allowed permanent			
SIP header values:			
INVITE1:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<pre><outgoingaccessrequest>FALSE<td>goingAccessRequ</td><td>iest></td><td></td></outgoingaccessrequest></pre>	goingAccessRequ	iest>	
INVITE2:			
No xml element <cug></cug>			
Comments:			
Test equipment (Gm)	AS	Test equipment	(ISC, Mw)
INVITE1 →	→	INVITE2	

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/CUG without preference + OAI	CUG_N03_008	Clause 4.5.2.4 of	PICS 4.5.1/2 AND
		[ITU-T Q.3627 v.1]	PICS 4.7.1/3
			[ITU-T Q.4011.1 v.1]
Test purpose			
CUG without preference + OAI: INVITE without CUG in	ndex and with outg	goingAccessRequest	= true, successful outgoing
access allowed.			
Ensure that the SUT on receipt of an INVITE request of	containing an xml	element cug with	
cugCallOperation containing			
outgoingAccessRequest = true,			
forwards an INVITE request containing no xml elemen			
Preconditions: Originating user has subscribed to	CUG		
Options for registered CUG index:	05)		
Intra CUG restrictions: None designated (-O	CB)		
Options for public identity in use:			
Preferential CUG: None designated			
Outgoing access: allowed permanent			
SIP header values:			
INVITE1:			
<cug></cug>			
<pre><cugcalloperation></cugcalloperation></pre>	raina A accas D a su	oot-	
<pre><outgoingaccessrequest>TRUE</outgoingaccessrequest></pre>	joingAccessRequi	esi>	
l <td></td> <td></td> <td></td>			
INVITE2:			
No xml element <cug></cug>			
Comments:			
Test equipment (Gm)	AS	Test equipment	(ISC, Mw)
INVITE1 →)	INVITE2	

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/CUG without preference + OAI	CUG_N03_009	Clause 4.5.2.4 of	PICS 4.5.1/2 AND
		[ITU-T Q.3627 v.1]	PICS 4.7.1/3
			[ITU-T Q.4011.1 v.1]
Test purpose			
CUG without preference + OAI: INVITE for non-CUG	communication, su	uccessful.	
Ensure that the SUT on receipt of an INVITE request	containing no xml	element cug,	
forwards an INVITE request containing no xml elemen	nt cug.		
Preconditions: Originating user has subscribed to	o CUG		
Options for registered CUG index:			
Intra CUG restrictions: None designated (-C	OCB)		
Options for public identity in use:			
Preferential CUG: None designated			
Outgoing access: allowed permanent			
SIP header values:			
INVITE1:			
No xml element <cug></cug>			
INVITE2:			
No xml element <cug></cug>			
Comments:			
	AS	Tost oquinmont	(ISC Mw)
Test equipment (Gm)	_	Test equipment	(ISC, WW)
INVITE1 →	→	▶ INVITE2	

7.2.1.4 CUG with preference

TSS		TP	CUG reference	Selection expression
CUG/orig	ginating_AS/CUG with preference	CUG_N04_001	Clause 4.5.2.4 of	PICS 4.5.1/2 AND
			[ITU-T Q.3627 v.1]	PICS 4.7.1/4
				[ITU-T Q.4011.1 v.1]
Test pur				
	h preference: INVITE with CUG index, succe			
Ensure th	nat the SUT on receipt of an INVITE request	containing an xml	element cug with	
	cugCallOperation containing			
	registered CUGIndex,			
forwards	an INVITE request containing an xml element	nt cug with		
	cugInterlockBinaryCode related to registere	ed CUG index,		
	networkIndicator (PIXIT) and			
	cugCommunicationIndicator set to "11" (CU	IG without outgoing	g access).	
Precond			•	
	Options for registered and preferred CU	G index:		
	Intra CUG restrictions: None designated (-C	OCB)		
	Options for public identity in use:	•		
	Preferential CUG: registered CUG			
	Outgoing access: not allowed			
SIP head	der values:			
INVITE1:				
<cug></cug>				
Ū	<cugcalloperation></cugcalloperation>			
	<pre><outgoingaccessrequest>FALSE</outgoingaccessrequest>FALSE</pre>	ıtaoinaAccessRea	uest>	
	<pre><cugindex>[registered</cugindex></pre>	CUĠ		index]
				1,119
	,			
3				
INVITE2:				
Content-	Disposition:;handling=required			
<cug></cug>				
9	<networkindicator>[PIXIT]<!-- networkIndica</td--><td>tor></td><td></td><td></td></networkindicator>	tor>		
	<cuginterlockbinarycode>[related to registe</cuginterlockbinarycode>		cugInterlockBinaryCo	ode>
	<pre><cugcommunicationindicator>11</cugcommunicationindicator></pre>			
			-	
Commer	nts:			
	ipment (Gm)	AS	Test equipment	t (ISC, Mw)
INVITE1	→	-		, ,

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/CUG with preference	CUG_N04_002	Clause 4.5.2.4 of [ITU-T Q.3627 v.1]	PICS 4.5.1/2 AND PICS 4.7.1/4 AND PICS 4.7.1/10 [ITU-T Q.4011.1 v.1]
Test purpose	•	•	
CUG with preference + OCB: INVITE with CUG index	, unsuccessful.		
Ensure that the SUT on receipt of an INVITE request	containing an xml	element cug with	
cugCallOperation containing registered CUGIndex,			
rejects the INVITE request by sending a 603 Decline	due to Outgoing Co	ommunication Barring	g.
Preconditions: Originating user has subscribed to	CUG	,	
Options for registered and preferred CUG			
Intra CUG restrictions: OCB			
Options for public identity in use:			
Preferential CUG: registered CUG			
Outgoing access: not allowed			
SIP header values:			
INVITE:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<pre><outgoingaccessrequest>FALSE</outgoingaccessrequest>FALSE</pre>	0 0		
<cugindex>[registered</cugindex>	CUG		index]
Comments:			
Test equipment (Gm)	AS		
INVITE →			
603 Decline			
ACK →			
T00	TD	0110	0-1

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/CUG with preference	CUG_N04_003	Clause 4.5.2.4 of	PICS 4.5.1/2 AND
		[ITU-T Q.3627 v.1]	PICS 4.7.1/4
			[ITU-T Q.4011.1 v.1]
Test purpose			
CUG with preference: INVITE with unregistered CUG is			
Ensure that the SUT on receipt of an INVITE request of	ontaining an xml e	element cug with	
cugCallOperation containing			
unregistered CUGIndex,			
rejects the INVITE request by sending a 403 Forbidder		ated CUG index.	
Preconditions: Originating user has subscribed to			
Options for registered and preferred CUG			
Intra CUG restrictions: None designated (-O	JB)		
Options for public identity in use:			
Preferential CUG: registered CUG			
Outgoing access: not allowed SIP header values:			
INVITE:			
<pre></pre> <pre><</pre>			
<pre><cugcalloperation></cugcalloperation></pre>			
<pre><outgoingaccessrequest>FALSE</outgoingaccessrequest>FALSE</pre>	noingAccessRegu	est>	
<pre><cugindex>[unregistered</cugindex></pre>	gon ig/ toooooi toqu	10012	CUG]
			ooo, aagmass
403 Forbidden			
Reason:			
Comments:	A.C.		
Test equipment (Gm)	AS		
INVITE → 403 Forbidden ←			
ACK →			

TSS CUG/originating_AS/CUG with prefe	erence	TP CUG_N04_004	CUG reference Clause 4.5.2.4 of [ITU-T Q.3627 v.1]	Selection expression PICS 4.5.1/2 AND PICS 4.7.1/4 [ITU-T Q.4011.1 v.1]
Test purpose				
CUG with preference: INVITE with 0				II.
Ensure that the SUT on receipt of a		ontaining an xml e	element cug with	
cugCallOperation containi				
outgoingAccessRequeregistered CUGIndex	,			
forwards an INVITE request contain				
cugInterlockBinaryCode re		l CUG index,		
networkIndicator (PIXIT) a				
cugCommunicationIndicat	or set to "11" (CUC	G without outgoing	access).	
Preconditions: Originating user	has subscribed to	CUG		
Options for registered a				
Intra CUG restrictions: No		CB)		
Options for public ident	•			
Preferential CUG: register				
Outgoing access: not allow	ved			
SIP header values:				
INVITE1:				
<cug></cug>				
<cugcalloperation></cugcalloperation>				
<outgoingaccessred< td=""><th></th><td></td><td>est></td><td></td></outgoingaccessred<>			est>	
<cugindex>[registere</cugindex>	d CUG index] <td>gIndex></td> <td></td> <td></td>	gIndex>		
INVITE2:				
Content-Disposition:;handling=re	quired			
<cug></cug>				
<networkindicator>[regist</networkindicator>				
<cuginterlockbinarycode:< td=""><th></th><td></td><td></td><td>de></td></cuginterlockbinarycode:<>				de>
< cugCommunicationIndication	ator>11 <td>nunicationIndicato</td> <td>r></td> <td></td>	nunicationIndicato	r>	
Comments:	<u> </u>		<u> </u>	
Test equipment (Gm)		AS	Test equipment	(ISC, Mw)
INVITE1	→	→	INVITE2	-

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/CUG with preference	CUG_N04_005	Clause 4.5.2.4 of	PICS 4.5.1/2 AND
		[ITU-T Q.3627 v.1]	PICS 4.7.1/4 AND
			PICS 4.7.1/10
			[ITU-T Q.4011.1 v.1]
Test purpose			-
CUG with preference +OCB: INVITE with CUG index	k and outgoingAcce	ssRequest = true, un	successful.
Ensure that the SUT on receipt of an INVITE request	t containing an xml	element cug with	
cugCallOperation containing			
outgoingAccessRequest = true and			
registered CUGIndex,			
rejects the INVITE request by sending a 603 Decline		mmunication barring.	
Preconditions: Originating user has subscribed			
Options for registered and preferred CU	IG index:		
Intra CUG restrictions: OCB			
Options for public identity in use:			
Preferential CUG: registered CUG			
Outgoing access: not allowed			
SIP header values:			
INVITE:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<outgoingaccessrequest>TRUE<td>itgoingAccessReque</td><td>est></td><td></td></outgoingaccessrequest>	itgoingAccessReque	est>	
<cugindex>[registered</cugindex>	CUG		index]
Comments:			
Test equipment (Gm)	AS		
INVITE -			
603 Decline			
ACK →			

		_	
TSS	TP	CUG reference	Selection expression
CUG/originating_AS/CUG with preference	CUG_N04_006	Clause 4.5.2.4 of	PICS 4.5.1/2 AND
		[ITU-T Q.3627 v.1]	PICS 4.7.1/4
			[ITU-T Q.4011.1 v.1]
Test purpose			
CUG with preference: INVITE with unregistered CU			ue, unsuccessful.
Ensure that the SUT on receipt of an INVITE reque	est containing an xml	element cug with	
cugCallOperation containing			
outgoingAccessRequest = true and			
unregistered CUGIndex,			
rejects the INVITE request by sending a 403 Forbio		ated CUG index.	
Preconditions: Originating user has subscribe			
Options for registered and preferred C			
Intra CUG restrictions: None designated	(-OCB)		
Options for public identity in use:			
Preferential CUG: registered CUG			
Outgoing access: not allowed			
SIP header values:			
INVITE:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<pre><outgoingaccessrequest>TRUE</outgoingaccessrequest></pre>	outgoingAccessRequ	est>	
<cuglndex>[unregistered</cuglndex>			CUG]
403 Forbidden			
Reason:			
Comments:			
Test equipment (Gm)	AS		
INVITE →	7.0		
403 Forbidden			
ACK →			
7.01.			

TSS	TP	CUG reference	Selection expression	
CUG/originating_AS/CUG with preference	CUG_N04_007	Clause 4.5.2.4 of	PICS 4.5.1/2 AND	
oo o, ongaig_, to, oo o man profesiones	000_1101_001	[ITU-T Q.3627 v.1]	PICS 4.7.1/4	
		[110 1 0.0027 7.1]	[ITU-T Q.4011.1 v.1]	
Test purpose			[
CUG with preference: INVITE without CUG index, suc	cessful.			
Ensure that the SUT on receipt of an INVITE request	containing an xml	element cug with		
cugCallOperation containing	-	-		
outgoingAccessRequest = false,				
forwards an INVITE request containing an xml elemer	nt cug with			
cugInterlockBinaryCode related to preferred	CUG index,			
networkIndicator (PIXIT) and				
cugCommunicationIndicator set to "11" (CU		access).		
Preconditions: Originating user has subscribed to				
Options for registered and preferred CUC				
Intra CUG restrictions: None designated (-C	OCB)			
Options for public identity in use:				
Preferential CUG: registered CUG				
Outgoing access: not allowed				
SIP header values:				
INVITE1:				
<cug></cug>				
<cugcalloperation></cugcalloperation>				
<pre><outgoingaccessrequest>FALSE</outgoingaccessrequest></pre>	tgoingAccessRequ	iest>		
INVITE2:				
Content-Disposition:;handling=required				
<cug></cug>				
<pre><networkindicator>[registered CUG index]</networkindicator></pre> / networkIndicator>				
<pre><cuginterlockbinarycode>[related to preference]</cuginterlockbinarycode></pre>			le>	
<cugcommunicationindicator>11</cugcommunicationindicator>				
Comments:				
Test equipment (Gm)	AS	Test equipment	(ISC, Mw)	
INVITE1 →	→			

CUG/originating_AS/CUG with preference CUG_N04_008 CUG_	TSS	TP	CUG reference	Selection expression
Test purpose CUG with preference: INVITE without CUG index and with outgoingAccessRequest = true, unsuccessful. Ensure that the SUT on receipt of an INVITE request containing an xml element cug with cugCallOperation containing outgoingAccessRequest = true, rejects the INVITE request by sending a 403 Forbidden due to outgoing access not allowed. Preconditions: Originating user has subscribed to CUG Options for registered and preferred CUG index: Intra CUG restrictions: None designated Options for public identity in use: Preferential CUG: registered CUG Outgoing access: not allowed SIP header values: INVITE: <cug> <ugcalloperation></ugcalloperation></cug>	CUG/originating_AS/CUG with preference	CUG_N04_008	Clause 4.5.2.4 of	
Test purpose CUG with preference: INVITE without CUG index and with outgoingAccessRequest = true, unsuccessful. Ensure that the SUT on receipt of an INVITE request containing an xml element cug with cugCallOperation containing outgoingAccessRequest = true, rejects the INVITE request by sending a 403 Forbidden due to outgoing access not allowed. Preconditions: Originating user has subscribed to CUG Options for registered and preferred CUG index: Intra CUG restrictions: None designated Options for public identity in use: Preferential CUG: registered CUG Outgoing access: not allowed SIP header values: INVITE: <cug> <ug> <ugcalloperation></ugcalloperation></ug></cug>			[ITU-T Q.3627 v.1]	PICS 4.7.1/4
CUG with preference: INVITE without CUG index and with outgoingAccessRequest = true, unsuccessful. Ensure that the SUT on receipt of an INVITE request containing an xml element cug with cugCallOperation containing outgoingAccessRequest = true, rejects the INVITE request by sending a 403 Forbidden due to outgoing access not allowed. Preconditions: Originating user has subscribed to CUG Options for registered and preferred CUG index: Intra CUG restrictions: None designated Options for public identity in use: Preferential CUG: registered CUG Outgoing access: not allowed SIP header values: INVITE: <cug> <ugcalloperation> <ugccolor="cugcalloperation"> <ugccolo< td=""><td></td><td></td><td></td><td>[ITU-T Q.4011.1 v.1]</td></ugccolo<></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugccolor="cugcalloperation"></ugcalloperation></cug>				[ITU-T Q.4011.1 v.1]
Ensure that the SUT on receipt of an INVITE request containing an xml element cug with cugCallOperation containing outgoingAccessRequest = true, rejects the INVITE request by sending a 403 Forbidden due to outgoing access not allowed. Preconditions: Originating user has subscribed to CUG Options for registered and preferred CUG index: Intra CUG restrictions: None designated Options for public identity in use: Preferential CUG: registered CUG Outgoing access: not allowed SIP header values: INVITE: <cug> <ugcalloperation> <ugcalloperation> <ugcalloperation> <ugcalloperation> <ugcdots cugcalloperation=""> AS INVITE 403 Forbidden Feason: AS INVITE 403 Forbidden AS INVITE</ugcdots></ugcdots></ugcdots></ugcdots></ugcdots></ugcdots></ugcdots></ugcdots></ugcdots></ugcdots></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></cug>				
cugCallOperation containing outgoingAccessRequest = true, rejects the INVITE request by sending a 403 Forbidden due to outgoing access not allowed. Preconditions: Originating user has subscribed to CUG Options for registered and preferred CUG index: Intra CUG restrictions: None designated Options for public identity in use: Preferential CUG: registered CUG Outgoing access: not allowed SIP header values: INVITE: <cug> <ugcalloperation> <ugcalloperation> <ugcdolor="red"><ugcalloperation><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><uggcoolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><uggcoolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"><ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></uggcoolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></uggcoolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcdolor="red"></ugcalloperation></ugcdolor="red"></ugcalloperation></ugcalloperation></cug>				nsuccessful.
outgoingAccessRequest = true, rejects the INVITE request by sending a 403 Forbidden due to outgoing access not allowed. Preconditions: Originating user has subscribed to CUG Options for registered and preferred CUG index: Intra CUG restrictions: None designated Options for public identity in use: Preferential CUG: registered CUG Outgoing access: not allowed SIP header values: INVITE: <cug> <ugcalloperation> <ugccalloperation> <ugccalloperation> <ugc> <ugcalloperation> <ugc> <ugccccccccccccccccccccccccccccccccccccc< td=""><td></td><td>containing an xml</td><td>element cug with</td><td></td></ugccccccccccccccccccccccccccccccccccccc<></ugc></ugcalloperation></ugc></ugcalloperation></ugc></ugcalloperation></ugc></ugcalloperation></ugc></ugcalloperation></ugc></ugcalloperation></ugc></ugcalloperation></ugc></ugcalloperation></ugc></ugccalloperation></ugccalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></cug>		containing an xml	element cug with	
rejects the INVITE request by sending a 403 Forbidden due to outgoing access not allowed. Preconditions: Originating user has subscribed to CUG Options for registered and preferred CUG index: Intra CUG restrictions: None designated Options for public identity in use: Preferential CUG: registered CUG Outgoing access: not allowed SIP header values: INVITE: <cug> <ugcalloperation> <ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><ugcdots="cugcallogoration"><uggdots="cugcallogoration"><uggdots="cugcallogoration"><uggdots="cugcallogoration"><uggdots="cugcallogoration"><uggdots="cugcallogoration"><ugcdots="cugcallogoration"><uggdots="cugcallogoration"><ugggooder="cugcallogoration"><uggdots="cugcallogoration"><ugggooder="cugcallogoration"><ugggooder="cugcallogoration"><ugggooder="cugcallogoration"><ugggooder="cugcallogoration"><ugggooder="cugcallogoration"><ugggooder="cugcallogoration"><ugggooder="cugcallogoration"><ugggooder="cugcallogoration"><ugggooder="cugcallogoration"><ugggooder="cugcallogoration"><ugggooder="cugcallogoration"><ugggooder="cugcallogoration"><ugggooder="cugcallogoration"><ugggooder=< td=""><td></td><td></td><td></td><td></td></ugggooder=<></ugggooder="cugcallogoration"></ugggooder="cugcallogoration"></ugggooder="cugcallogoration"></ugggooder="cugcallogoration"></ugggooder="cugcallogoration"></ugggooder="cugcallogoration"></ugggooder="cugcallogoration"></ugggooder="cugcallogoration"></ugggooder="cugcallogoration"></ugggooder="cugcallogoration"></ugggooder="cugcallogoration"></ugggooder="cugcallogoration"></ugggooder="cugcallogoration"></uggdots="cugcallogoration"></ugggooder="cugcallogoration"></uggdots="cugcallogoration"></ugcdots="cugcallogoration"></uggdots="cugcallogoration"></uggdots="cugcallogoration"></uggdots="cugcallogoration"></uggdots="cugcallogoration"></uggdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcdots="cugcallogoration"></ugcalloperation></cug>				
Preconditions: Originating user has subscribed to CUG Options for registered and preferred CUG index: Intra CUG restrictions: None designated Options for public identity in use: Preferential CUG: registered CUG Outgoing access: not allowed SIP header values: INVITE: <cug> <ugcalloperation> <outgoingaccessrequest>TRUE</outgoingaccessrequest> </ugcalloperation></cug> 403 Forbidden Reason: Comments: Test equipment (Gm) INVITE 403 Forbidden Fest equipment (Gm) AS INVITE AS INVITE				
Options for registered and preferred CUG index: Intra CUG restrictions: None designated Options for public identity in use: Preferential CUG: registered CUG Outgoing access: not allowed SIP header values: INVITE: <cug> <ugcalloperation> <ugccalloperation> <ugccalloperati< td=""><td></td><td></td><td>access not allowed.</td><td></td></ugccalloperati<></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugccalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></cug>			access not allowed.	
Intra CUG restrictions: None designated Options for public identity in use: Preferential CUG: registered CUG Outgoing access: not allowed SIP header values: INVITE: <cug></cug>				
Options for public identity in use: Preferential CUG: registered CUG Outgoing access: not allowed SIP header values: INVITE: <cug> <ugcalloperation> <ugccolored by="" companies="" of="" of<="" td="" the=""><td></td><td>3 index:</td><td></td><td></td></ugccolored></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></ugcalloperation></cug>		3 index:		
Preferential CUG: registered CUG Outgoing access: not allowed SIP header values: INVITE: <cug></cug>				
Outgoing access: not allowed SIP header values: INVITE: <cug></cug>				
SIP header values: INVITE: <cug></cug>				
INVITE: <cug></cug>				
<pre><cug></cug></pre>				
<pre></pre>	· · · · · - ·			
<pre></pre>				
<pre> 403 Forbidden</pre>		anina Annon Doau	oot.	
<pre> 403 Forbidden</pre>	,	goingAccessReque	281>	
403 Forbidden	, · · · · · · · · · · · · · · · · · · ·			
Reason: Comments: Test equipment (Gm) INVITE 403 Forbidden AS	l cug>			
Reason: Comments: Test equipment (Gm) INVITE 403 Forbidden AS	403 Forbidden			
Comments: Test equipment (Gm) INVITE 403 Forbidden AS AS	1			
Test equipment (Gm) INVITE 403 Forbidden AS AS				
INVITE → 403 Forbidden ←	Test equipment (Gm)	AS		
	ACK →			

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/CUG with preference	CUG_N04_009	Clause 4.5.2.4 of [ITU-T Q.3627 v.1]	PICS 4.5.1/2 AND PICS 4.7.1/4
		[110-1 Q.3027 V.1]	[ITU-T Q.4011.1 v.1]
Test purpose		1	IL J
CUG with preference: INVITE for non-CUG commun	ication, successful.		
Ensure that the SUT on receipt of an INVITE request	t containing no xml	element cug,	
forwards an INVITE request containing an xml eleme			
cugInterlockBinaryCode related to preferre	ed CUG index,		
networkIndicator (PIXIT) and			
cugCommunicationIndicator set to "11" (CI	UG without outgoing	g access).	
Preconditions: Originating user has subscribed	to CUG		
Options for registered and preferred CU	IG index:		
Intra CUG restrictions: None designated (-	OCB)		
Options for public identity in use:			
Preferential CUG: registered CUG			
Outgoing access: not allowed			
SIP header values:			
INVITE1:			
No xml element <cug></cug>			
INVITE2:			
Content-Disposition:;handling=required			
<cug></cug>			
<networkindicator>[registered CUG index</networkindicator>	<pre> <!-- networkIndicator</pre--></pre>	>	
<cuginterlockbinarycode>[related to prefe</cuginterlockbinarycode>	rred CUG index] <td>ugInterlockBinaryCod</td> <td>de></td>	ugInterlockBinaryCod	de>
<cugcommunicationindicator>11</cugcommunicationindicator>	nmunicationIndicato	or>	
Comments:			
Test equipment (Gm)	AS	Test equipment	(ISC, Mw)
INVITE1 →	-	NVITE2	

7.2.1.5 CUG with preference + OAE

TSS CUG/originating_AS/CUG with preference + OAE	TP CUG_N05_001	CUG reference Clause 4.5.2.4 of [ITU-T Q.3627 v.1]	PICS 4.5.1/2 AND PICS 4.7.1/5 [ITU-T Q.4011.1 v.1]		
Test purpose					
CUG with preference + OAE: INVITE with CUG index,					
Ensure that the SUT on receipt of an INVITE request of cugCallOperation containing registered CUGIndex,					
forwards an INVITE request containing an xml elemen cugInterlockBinaryCode related to registered networkIndicator (PIXIT) and cugCommunicationIndicator set to "11" (CUG	d CUG index,	arress)			
Preconditions: Originating user has subscribed to		access).			
Options for registered and preferred CUG					
Intra CUG restrictions: None designated (-O					
Options for public identity in use:	00)				
Preferential CUG: registered CUG					
Outgoing access: allowed per communicatio	n				
SIP header values:					
INVITE1:					
<cug></cug>					
<pre><cugcalloperation></cugcalloperation></pre>		est>			
INVITE2: Content-Disposition:;handling=required					
<pre><cug></cug></pre>					
<pre><networkindicator>[PIXIT]<!-- networkIndicator--></networkindicator></pre>					
Comments:					
Test equipment (Gm)	AS	Test equipment	(ISC, Mw)		
INVITE1 →	→	INVITE2			

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/CUG with preference + OAE	CUG_N05_002	Clause 4.5.2.4 of [ITU-T Q.3627 v.1]	PICS 4.5.1/2 AND PICS 4.7.1/5 AND PICS 4.7.1/10 [ITU-T Q.4011.1 v.1]
Test purpose	Į.	· L	Here a discount and
CUG with preference + OAE + OCB: INVITE with CU	G index, unsucces	sful.	
Ensure that the SUT on receipt of an INVITE request			
cugCallOperation containing	ŭ	Ü	
registered CUGIndex,			
rejects the INVITE request by sending a 603 Decline	to Outgoing Comm	unication Barring.	
Preconditions: Originating user has subscribed to			
Options for registered and preferred CU	G index:		
Intra CUG restrictions: OCB			
Options for public identity in use:			
Preferential CUG: registered CUG			
Outgoing access: allowed per communication	on		
SIP header values:			
INVITE:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<pre><outgoingaccessrequest>FALSE[registered </outgoingaccessrequest></pre>	ıtgoingAccessReqı CUG		index]
Comments:			
Test equipment (Gm)	AS		
INVITE			
603 Decline ← ACK →			
ACK →			

TSS CUG/originating_AS/CUG with preference + OAE	TP CUG_N05_003	CUG reference Clause 4.5.2.4 of	Selection expression PICS 4.5.1/2 AND
OOO/originating_Ao/OOO with preference + OAL	000_1105_005	[ITU-T Q.3627 v.1]	PICS 4.7.1/5
			[ITU-T Q.4011.1 v.1]
Test purpose			
CUG with preference + OAE: INVITE with unregistered			
Ensure that the SUT on receipt of an INVITE request of	containing an xml	element cug with	
cugCallOperation containing			
unregistered CUGIndex,			
rejects the INVITE request by sending a 403 Forbidder		ited CUG index.	
Preconditions: Originating user has subscribed to			
Options for registered and preferred CUG			
Intra CUG restrictions: None designated (-O	CB)		
Options for public identity in use:			
Preferential CUG: registered CUG	n		
Outgoing access: allowed per communicatio SIP header values:	П		
INVITE:			
<pre><cuq></cuq></pre>			
<pre><cugcalloperation></cugcalloperation></pre>			
<pre><pre><pre><outgoingaccessrequest>FALSE</outgoingaccessrequest></pre>/outgoingAccessRequest</pre></pre>	aoinaAccessReau	iest>	
<pre><cugindex>[unregistered</cugindex></pre>	g		CUG]
			1.1.9
403 Forbidden			
Reason:			
Comments:			
Test equipment (Gm)	AS		
INVITE →			
403 Forbidden ←			
ACK →			

Test purpose CUG with preference + OAE: INVITE with CUG index and outgoingAccessRequest = true, successful Ensure that the SUT on receipt of an INVITE request containing an xml element cug with	4.5.1/2 AND 4.7.1/5 Γ Q.4011.1 v.1]
CUG with preference + OAE: INVITE with CUG index and outgoingAccessRequest = true, successful Ensure that the SUT on receipt of an INVITE request containing an xml element cug with	ul.
Ensure that the SUT on receipt of an INVITE request containing an xml element cug with	ul.
cugCallOperation containing	
outgoingAccessRequest = true and	
registered CUGIndex,	
forwards an INVITE request containing an xml element cug with	
cugInterlockBinaryCode related to registered CUG index,	
networkIndicator (PIXIT) and	
cugCommunicationIndicator set to "10" (CUG with outgoing access).	
Preconditions: Originating user has subscribed to CUG Options for registered and preferred CUG index:	
Intra CUG restrictions: None designated (-OCB)	
Options for public identity in use:	
Preferential CUG: registered CUG	
Outgoing access: allowed per communication	
SIP header values:	
INVITE1:	
<cug></cug>	
<pre><cugcalloperation></cugcalloperation></pre>	
<pre><outgoingaccessrequest>TRUE</outgoingaccessrequest></pre>	
<pre><cugindex>[registered CUG</cugindex></pre>	index]
	1 9
INVITE2:	
<cug></cug>	
<networkindicator>[PIXIT]<!--</td--><td>networkIndicator></td></networkindicator>	networkIndicator>
<pre><cuginterlockbinarycode>[related to registered CUG index]</cuginterlockbinarycode></pre> /cugInterlockBinaryCode>[related to registered CUG index]/cugCommunicationIndicator>	terlockBinaryCode>
Comments:	
Test equipment (Gm) AS Test equipment (ISC, I	Mw)
INVITE1 → INVITE2	•

CUG/originating_AS/CUG with preference + OAE Test purpose CUG with preference + OAE + OCB within CUG: INVI		Clause 4.5.2.4 of [ITU-T Q.3627 v.1]	PICS 4.5.1/2 AND PICS 4.7.1/5 [ITU-T Q.4011.1 v.1]
CUG with preference + OAE + OCB within CUG: INVI			[ITU-T Q.4011.1 v.1]
CUG with preference + OAE + OCB within CUG: INVI		and outgoing Access	ir i
CUG with preference + OAE + OCB within CUG: INVI		and outgoing Access	
•		and outgoing Access	
- ,,, ,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	containing an yml	0 0	\forall equest = true, successful.
Ensure that the SUT on receipt of an INVITE request	Containing an Ann	element cug with	
cugCallOperation containing			
outgoingAccessRequest = true and			
registered CUGIndex,			
orwards an INVITE request containing no xml eleme			
Preconditions: Originating user has subscribed to			
Options for registered and preferred CU	G index:		
Intra CUG restrictions: OCB within CUG			
Options for public identity in use:			
Preferential CUG: registered CUG			
Outgoing access: allowed per communicati	on		
SIP header values:			
NVITE1:			
<cug></cug>			
<pre><cugcalloperation></cugcalloperation></pre>		4	
<pre><outgoingaccessrequest>TRUE</outgoingaccessrequest></pre>	goingAccessRequi CUG		index1./ougladex
<cugindex>[registered </cugindex>	COG		index]
voug/			
NVITE2:			
No xml element <cug></cug>			
Comments:			
Test equipment (Gm)	AS	Test equipment	: (ISC, Mw)
NVITE1 →)	• •	•

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/CUG with preference + OAE	CUG_N05_006	Clause 4.5.2.4 of	PICS 4.5.1/2 AND
		[ITU-T Q.3627 v.1]	PICS 4.7.1/5
			[ITU-T Q.4011.1 v.1]
Test purpose			
CUG with preference + OAE: INVITE with unregistered			est = true, unsuccessful.
Ensure that the SUT on receipt of an INVITE request of	containing an xml	element cug with	
cugCallOperation containing			
outgoingAccessRequest = true and			
unregistered CUGIndex,			
rejects the INVITE request by sending a 403 Forbidder		ated CUG index.	
Preconditions: Originating user has subscribed to			
Options for registered and preferred CUG			
Intra CUG restrictions: None designated (-O	CB)		
Options for public identity in use:			
Preferential CUG: registered CUG			
Outgoing access: allowed per communication	n		
SIP header values:			
INVITE:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<outgoingaccessrequest>TRUE<td>joingAccessReque</td><td>est></td><td>0.101</td></outgoingaccessrequest>	joingAccessReque	est>	0.101
<cuglndex>[unregistered</cuglndex>			CUG]
Comments:			
Test equipment (Gm)	AS		
INVITE -			
403 Forbidden			
ACK →			

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/CUG with preference + OAE	CUG_N05_007	Clause 4.5.2.4 of	PICS 4.5.1/2 AND
Will profession of the	000_1100_007	[ITU-T Q.3627 v.1]	PICS 4.7.1/5
		[110-1 Q.3027 V.1]	[ITU-T Q.4011.1 v.1]
Test purpose			[[10 1 Q:4011:1 V:1]
CUG with preference + OAE: INVITE without CUG inc	dex and with outgo	inaAccessRequest =	false successful
Ensure that the SUT on receipt of an INVITE request			raide, dadeodarai.
cugCallOperation containing	containing an Ann v	cicinoni oug with	
outgoingAccessRequest = false,			
forwards an INVITE request containing an xml elemer	ot cua with		
cugInterlockBinaryCode related to preferred			
networkIndicator (PIXIT) and	rooc maox,		
cugCommunicationIndicator set to "11" (CU	JG without outgoing	access).	
Preconditions: Originating user has subscribed to		<u>,</u>	
Options for registered and preferred CUG			
Intra CUG restrictions: None designated (-C			
Options for public identity in use:			
Preferential CUG: registered CUG			
Outgoing access: allowed per communication	on		
SIP header values:			
INVITE1:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<pre><outgoingaccessrequest>FALSE</outgoingaccessrequest>FALSE</pre>	ıtgoingAccessRequ	uest>	
INVITE2:			
Content-Disposition:;handling=required			
<cug></cug>			
<networkindicator>[PIXIT]<!-- networkIndicator</td--><td></td><td></td><td></td></networkindicator>			
<cuginterlockbinarycode>[related to prefer</cuginterlockbinarycode>			de>
<cugcommunicationindicator>11</cugcommunicationindicator>	municationIndicate	or>	
Comments:			
Test equipment (Gm)	AS	Test equipment	: (ISC, Mw)
INVITE1 →	→	INVITE2	

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/CUG with preference + OAE	CUG_N05_008	Clause 4.5.2.4 of	PICS 4.5.1/2 AND
		[ITU-T Q.3627 v.1]	PICS 4.7.1/5
			[ITU-T Q.4011.1 v.1]
Test purpose			
CUG with preference + OAE: INVITE without CUG inde			true, successful.
Ensure that the SUT on receipt of an INVITE request c	ontaining an xml e	element cug with	
cugCallOperation containing			
outgoingAccessRequest = true,			
forwards an INVITE request containing no xml element			
Preconditions: Originating user has subscribed to			
Options for registered and preferred CUG	index:		
Intra CUG restrictions: None designated			
Options for public identity in use:			
Preferential CUG: registered CUG			
Outgoing access: allowed per communication	า		
SIP header values:			
INVITE1:			
<cug></cug>			
<pre><cugcalloperation></cugcalloperation></pre>			
<pre><outgoingaccessrequest>TRUETRUE</outgoingaccessrequest></pre>	oingAccessReque	est>	
INVITE2:			
No xml element <cug></cug>			
Comments:			
Test equipment (Gm)	AS	Test equipment	(ISC, Mw)
INVITE1 →	→	INVITE2	

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/CUG with preference + OAE	CUG_N05_009	Clause 4.5.2.4 of	PICS 4.5.1/2 AND
		[ITU-T Q.3627 v.1]	PICS 4.7.1/5
			[ITU-T Q.4011.1 v.1]
Test purpose			
CUG with preference + OAE: INVITE for non-CUG co	,		
Ensure that the SUT on receipt of an INVITE request		element cug,	
returns an INVITE request containing an xml element			
cugInterlockBinaryCode related to preferred	d CUG index,		
networkIndicator (PIXIT) and			
cugCommunicationIndicator set to "11" (CU		g access).	
Preconditions: Originating user has subscribed to			
Options for registered and preferred CU			
Intra CUG restrictions: None designated (-C	DCB)		
Options for public identity in use:			
Preferential CUG: registered CUG			
Outgoing access: allowed per communication	on		
SIP header values:			
INVITE1:			
No xml element <cug></cug>			
INVITE2:			
Content-Disposition:;handling=required			
<cug></cug>			
<networkindicator>[PIXIT]<!-- networkIndica</td--><td>tor></td><td></td><td></td></networkindicator>	tor>		
<cuginterlockbinarycode>[related to prefer</cuginterlockbinarycode>	red CUG index] <td>ugInterlockBinaryCo</td> <td>de></td>	ugInterlockBinaryCo	de>
<cugcommunicationindicator>11</cugcommunicationindicator>	municationIndicate	or>	
Comments:		·	·
Test equipment (Gm)	AS	Test equipment	t (ISC, Mw)
INVITE1 →)	INVITE2	

7.2.1.6 CUG with preference + OAI

CUG/originating_AS/CUG with preference + OAI	CUG_N06_001	CUG reference Clause 4.5.2.4 of [ITU-T Q.3627 v.1]	Selection expression PICS 4.5.1/2 AND PICS 4.7.1/6		
		[[ITU-T Q.4011.1 v.1]		
est purpose					
CUG with preference + OAI: INVITE with CUG index	r, successful.				
insure that the SUT on receipt of an INVITE reques	t containing an xml	element cug with			
cugCallOperation containing					
registered CUGIndex,					
orwards an INVITE request containing an xml eleme					
cugInterlockBinaryCode related to register	ed CUG index,				
networkIndicator (PIXIT) and					
cugCommunicationIndicator set to "10" (Cl	UG with outgoing a	ccess).			
Preconditions: Originating user has subscribed					
Options for registered and preferred CU					
Intra CUG restrictions: None designated (-	OCB)				
Options for public identity in use:					
Preferential CUG: registered CUG					
Outgoing access: allowed permanent					
SIP header values:					
NVITE1:					
cug>					
<cugcalloperation></cugcalloperation>					
<pre><outgoingaccessrequest>FALSE</outgoingaccessrequest></pre>	utgoingAccessReq	uest>			
<cugindex>[registered</cugindex>	CUG	ì	index]		
/cug>					
NVITE2:					
cug>					
<pre><networkindicator>[PIXIT]<!-- networkIndicator</pre--></networkindicator></pre>	ator>				
<pre><networkindicator>[FIXIT]</networkindicator></pre> / networkindicator> <cuginterlockbinarycode>[related to registered CUG index]</cuginterlockbinarycode>					
<cugcommunicationindicator>10</cugcommunicationindicator>					
/cug>	minameationinaleat	01/			
Comments:					
est equipment (Gm) NVITE1 →	AS -	Test equipment NVITE2	(ISC, Mw)		

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/CUG with preference + OAI	CUG_N06_002	Clause 4.5.2.4 of	PICS 4.5.1/2 AND
		[ITU-T Q.3627 v.1]	PICS 4.7.1/6 AND
			PICS 4.7.1/10
			[ITU-T Q.4011.1 v.1]
Test purpose			
CUG with preference + OAI and OCB: INVITE with CU			
Ensure that the SUT on receipt of an INVITE request c	ontaining an xml	element cug with	
cugCallOperation containing			
registered CUGIndex,			
rejects the INVITE request by sending a 603 Decline d	ue to outgoing coi	mmunication barring.	
Preconditions: Originating user has subscribed to			
Options for registered and preferred CUG	inaex:		
Intra CUG restrictions: OCB			
Options for public identity in use:			
Preferential CUG: registered CUG			
Outgoing access: allowed permanent SIP header values:			
INVITE:			
<cug></cug>			
<pre><cugcalloperation></cugcalloperation></pre>	i		
<pre><outgoingaccessrequest>FALSE</outgoingaccessrequest></pre>	goingAccessRequ CUG	iest>	indov] «/ougladov»
<uglindex>[registered</uglindex>	CUG		index]
Comments:			
Test equipment (Gm)	AS		
INVITE →	7.0		
603 Decline			

TSS	TP	CUG reference	Colootion aynrossian
1.00		Clause 4.5.2.4 of	Selection expression PICS 4.5.1/2 AND
CUG/originating_AS/CUG with preference + OAI	CUG_N06_003		PICS 4.7.1/6
		[ITU-T Q.3627 v.1]	
-			[ITU-T Q.4011.1 v.1]
Test purpose	#FE :# 0110 :		
CUG with preference + OAI and OCB within CUG: INV			
Ensure that the SUT on receipt of an INVITE request c	ontaining an xml	element cug with	
cugCallOperation containing			
registered CUGIndex,			
forwards an INVITE request containing no xml element			
Preconditions: Originating user has subscribed to			
Options for registered and preferred CUG	index:		
Intra CUG restrictions: OCB within CUG			
Options for public identity in use:			
Preferential CUG: registered CUG			
Outgoing access: allowed permanent			
SIP header values:			
INVITE1:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<pre><outgoingaccessrequest>FALSE</outgoingaccessrequest></pre>		uest>	
<cuglndex>[registered</cuglndex>	CUG		index]
INVITE2:			
No xml element <cug></cug>			
Comments:			
Test equipment (Gm)	AS		
INVITE1 -	→	INVITE2	

TSS	TP	CUG reference	Selection expression	
CUG/originating_AS/CUG with preference + OAI	CUG_N06_004	Clause 4.5.2.4 of [ITU-T Q.3627 v.1]	PICS 4.5.1/2 AND PICS 4.7.1/6 [ITU-T Q.4011.1 v.1]	
Test purpose				
CUG with preference + OAI: INVITE with unregistered				
Ensure that the SUT on receipt of an INVITE request	containing an xml	element cug with		
cugCallOperation containing				
unregistered CUGIndex,				
rejects the INVITE request by sending a 403 Forbidde		ated CUG index.		
Preconditions: Originating user has subscribed to				
Options for registered and preferred CUC				
Intra CUG restrictions: None designated (-C	CB)			
Options for public identity in use:				
Preferential CUG: registered CUG				
Outgoing access: allowed permanent SIP header values:				
INVITE:				
<pre>cug></pre>				
<pre><cugcalloperation></cugcalloperation></pre>				
<pre><utgoingaccessrequest>FALSE</utgoingaccessrequest></pre>	taoinaAccessRea	iest>		
<pre><cugindex>[unregistered</cugindex></pre>	igomig/ tooodor toqt	30012	CUG]	
			2.2.1 *****9********	
403 Forbidden				
Reason:				
Comments:				
Test equipment (Gm) AS				
INVITE →				
403 Forbidden ←				
ACK →				

	ating_AS/CUG with preference + OAI	TP CUG_N06_005	CUG reference Clause 4.5.2.4 of [ITU-T Q.3627 v.1]	Selection expression PICS 4.5.1/2 AND PICS 4.7.1/6 [ITU-T Q.4011.1 v.1]
Test purpo				
	reference + OAI: INVITE with CUG index a			cessful.
	the SUT on receipt of an INVITE request c	ontaining an xml e	element cug with	
CI	ugCallOperation containing			
	outgoingAccessRequest = true and			
	registered CUGIndex,			
	INVITE request containing an xml element			
	ugInterlockBinaryCode related to registered	CUG index,		
	etworkIndicator (PIXIT) and		,	
	ugCommunicationIndicator set to "10" (CUG	with outgoing ac	cess).	
Precondition	ons: Originating user has subscribed to options for registered and preferred CUG			
	ntra CUG restrictions: None designated (-O			
	eptions for public identity in use:	<i>(</i> 00)		
	referential CUG: registered CUG			
	outgoing access: allowed permanent			
SIP header				
INVITE1:	values.			
<cug></cug>				
	cugCallOperation>			
	<pre><outgoingaccessrequest>TRUE</outgoingaccessrequest>TRUE</pre>	oinaAccessReaue	est>	
	<pre><cugindex>[registered</cugindex></pre>	3		CUG]
</td <td>/cugCallOperation></td> <td></td> <td></td> <td>1113</td>	/cugCallOperation>			1113
INVITE2:				
<cug></cug>				
	networkIndicator >[PIXIT] networkIndicato</td <td></td> <td></td> <td></td>			
	cugInterlockBinaryCode>[related to register			de>
	cugCommunicationIndicator>10 <td>nunicationIndicato</td> <td>r></td> <td></td>	nunicationIndicato	r>	
Test equip		AS	Test equipment	(ISC Mw)
INVITE1	ment (Gill)	A3 →		(100, 14144)
II A V I I L	7		HVIILL	

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/CUG with preference + OAI	CUG_N06_006	Clause 4.5.2.4 of	PICS 4.5.1/2 AND
		[ITU-T Q.3627 v.1]	PICS 4.7.1/6 AND
			PICS 4.7.1/10
			[ITU-T Q.4011.1 v.1]
Test purpose			
CUG with preference + OAI and OCB: INVITE with C	UG index and outg	oingAccessRequest =	= true, unsuccessful.
Ensure that the SUT on receipt of an INVITE request	containing an xml	element cug with	
cugCallOperation containing			
outgoingAccessRequest = true and			
registered CUGIndex,			
rejects the INVITE request by sending a 603 Decline	due to outgoing co	mmunication barring.	
Preconditions: Originating user has subscribed to	o CUG		
Options for registered and preferred CU	G index:		
Intra CUG restrictions: OCB			
Options for public identity in use:			
Preferential CUG: registered CUG			
Outgoing access: allowed permanent			
SIP header values:			
INVITE1:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<pre><outgoingaccessrequest>TRUE</outgoingaccessrequest></pre>	goingAccessReque	est>	
<cugindex>[registered</cugindex>			CUG]
			. 0
Comments:			
Test equipment (Gm)	AS	Test equipment	(ISC, Mw)
INVITE →			
603 Decline ←			
ACK →			

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/CUG with preference + OAI	CUG_N06_007	Clause 4.5.2.4 of [ITU-T Q.3627 v.1]	PICS 4.5.1/2 AND PICS 4.7.1/6
			[ITU-T Q.4011.1 v.1]
Test purpose			
CUG with preference + OAI and OCB within CUG	G: INVITE with Cl	JG index and outgo	ingAccessRequest = true,
successful.	aantaining on yml	alamant aug with	
Ensure that the SUT on receipt of an INVITE request cugCallOperation containing	containing an xiiii	element cug with	
outgoingAccessRequest = true and			
registered CUGIndex,			
	nt aug in propont		
forwards an INVITE request containing no xml eleme Preconditions: Originating user has subscribed			
Options for registered and preferred CU			
Intra CUG restrictions: OCB within CUG	G IIIdex.		
Options for public identity in use:			
Preferential CUG: registered CUG			
Outgoing access: allowed permanent			
SIP header values:			
INVITE1:			
<pre><cug></cug></pre>			
<pre><cugcalloperation></cugcalloperation></pre>			
<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	taninaAccessReau	est>	
<pre><cugindex>[registered</cugindex></pre>	igomy/toocoortoqu	0012	CUG]
			oooj waagiilaan
INVITE2:			
No xml element <cug></cug>			
Comments:			
Test equipment (Gm)	AS	Test equipment	t (ISC, Mw)
INVITE1 →	-		• •

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/CUG with preference + OAI	CUG_N06_008	Clause 4.5.2.4 of	PICS 4.5.1/2 AND
		[ITU-T Q.3627 v.1]	PICS 4.7.1/6
			[ITU-T Q.4011.1 v.1]
Test purpose			
CUG with preference + OAI: INVITE with unregistered			est = true, unsuccessful.
Ensure that the SUT on receipt of an INVITE request	containing an xml	element cug with	
cugCallOperation containing			
outgoingAccessRequest = true and			
unregistered CUGIndex,			
rejects the INVITE request by sending a 403 Forbidde	n due to not alloca	ated CUG index.	
Preconditions: Originating user has subscribed to			
Options for registered and preferred CUC			
Intra CUG restrictions: None designated (-C Options for public identity in use:	(CB)		
Preferential CUG: registered CUG			
Outgoing access: allowed permanent			
SIP header values:			
INVITE:			
<ur><cug></cug></ur>			
<pre><cugcalloperation></cugcalloperation></pre>			
<pre><utgoingaccessrequest>TRUE</utgoingaccessrequest></pre>	noingAccessRequ	est>	
<pre><cugindex>[unregistered</cugindex></pre>	gomig/ tooodor toqu	001-	CUG]
400 Fashidda			
403 Forbidden			
Reason: Comments:			
	AS		
Test equipment (Gm) INVITE →	AS		
403 Forbidden			
ACK +			
7011			

TSS CUG/originating_AS/CUG with preference + OAI	TP CUG_N06_009	CUG reference Clause 4.5.2.4 of	Selection expression PICS 4.5.1/2 AND
COG/originating_AS/COG with preference + OAI	COG_N00_009	[ITU-T Q.3627 v.1]	PICS 4.5.1/2 AND
		[110 1 4.0027 1.1]	[ITU-T Q.4011.1 v.1]
Test purpose	•		-
CUG with preference + OAI: INVITE without CUG inc			rue, successful.
Ensure that the SUT on receipt of an INVITE request	containing an xml	element cug with	
cugCallOperation containing			
outgoingAccessRequest = true,			
forwards an INVITE request containing an xml eleme			
cugInterlockBinaryCode related to preferre	d CUG index,		
networkIndicator (PIXIT) and	10 111 1	,	
cugCommunicationIndicator set to "10" (CL		ccess).	
Preconditions: Originating user has subscribed to			
Options for registered and preferred CU			
Intra CUG restrictions: None designated (-0	JCB)		
Options for public identity in use:			
Preferential CUG: registered CUG			
Outgoing access: allowed permanent SIP header values:			
INVITE1:			
1			
<pre><cug></cug></pre>			
<cugodiloperation> <outgoingaccessrequest>TRUE</outgoingaccessrequest>TRUE</cugodiloperation>	taoina Access Peau	act.	
	igolligAccessivequi	531/	
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
INVITE2:			
<cug></cug>			
<pre><networkindicator>[PIXIT]<!-- networkIndicator</pre--></networkindicator></pre>	ator>		
<cuginterlockbinarycode>[related to prefer</cuginterlockbinarycode>		ugInterlockBinarvCod	de>
<cugcommunicationindicator>10</cugcommunicationindicator>			
Comments:			
Test equipment (Gm)	AS	Test equipment	(ISC, Mw)
INVITE1 →)	INVITE2	

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/CUG with preference + OAI	CUG_N06_010	Clause 4.5.2.4 of	PICS 4.5.1/2 AND
		[ITU-T Q.3627 v.1]	PICS 4.7.1/6 AND
			PICS 4.7.1/10
			[ITU-T Q.4011.1 v.1]
Test purpose		•	
CUG with preference + OAI and OCB: INVITE without	ıt CUG index and wi	th outgoingAccessRe	quest = true, unsuccessful
Ensure that the SUT on receipt of an INVITE reques	t containing an xml	element cug with	
cugCallOperation containing	· ·	· ·	
outgoingAccessRequest = true,			
rejects the INVITE request by sending a 603 Decline	due to outgoing co	mmunication barring.	
Preconditions: Originating user has subscribed		<u> </u>	
Options for registered and preferred CL	JG index:		
Intra CUG restrictions: OCB			
Options for public identity in use:			
Preferential CUG: registered CUG			
Outgoing access: allowed permanent			
SIP header values:			
INVITE:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	utaoinaAccessReau	est>	
	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		
Comments:			
Test equipment (Gm)	AS		
INVITE →			
603 Decline			
ACK →			

7.2.1.7 No CUG

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/No CUG	CUG_N07_001	Clause 4.5.2.4 of	PICS 4.5.1/2
		[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test purpose			
No CUG: INVITE with CUG index, unsuccessful.			
Ensure that the SUT on receipt of an INVITE request of	containing an xml	element cug with	
cugCallOperation containing			
any CUGIndex,			
rejects the INVITE request by sending a 403 Forbidde			
Preconditions: Originating user has not subscribed	to CUG		
SIP header values:			
INVITE:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<pre><outgoingaccessrequest>FALSE</outgoingaccessrequest></pre>		uest>	
<cuglndex>[any</cuglndex>	CUG		index]
403 Forbidden			
Reason:			
Comments:			
Test equipment (Gm)	AS		
INVITE →			
403 Forbidden ←			
ACK →			

		_	T
TSS	TP	CUG reference	Selection expression
CUG/originating_AS/No CUG	CUG_N07_002	Clause 4.5.2.4 of	PICS 4.5.1/2
		[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test purpose			
No CUG: INVITE with CUG index and outgoingAcces	sRequest = true, u	ınsuccessful.	
Ensure that the SUT on receipt of an INVITE request	containing an xml	element cug with	
cugCallOperation containing	· ·	· ·	
outgoingAccessRequest = true and			
any CUGIndex,			
rejects the INVITÉ request by sending a 403 Forbidde	en.		
Preconditions: Originating user has not subscribed			
SIP header values:			
INVITE:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<outgoingaccessrequest>TRUE<td>goingAccessRequ</td><td>est></td><td></td></outgoingaccessrequest>	goingAccessRequ	est>	
<pre><cugindex>[</cugindex></pre> any		CUG	index]
			1,119
403 Forbidden			
Reason:			
Comments:			
Test equipment (Gm)	AS		
INVITE →			
403 Forbidden			
ACK →			

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/No CUG	CUG_N07_003	Clause 4.5.2.4 of	PICS 4.5.1/2
		[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test purpose			
No CUG: INVITE without CUG index, unsuccessful.			
Ensure that the SUT on receipt of an INVITE request c	ontaining an xml	element cug with	
cugCallOperation containing	-	-	
outgoingAccessRequest = false,			
rejects the INVITE request by sending a 403 Forbidder	٦.		
Preconditions: Originating user has not subscribed t			
SIP header values:			
INVITE:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<outgoingaccessrequest>FALSE</outgoingaccessrequest> FALSE	goingAccessRequ	uest>	
403 Forbidden			
Reason:			
Comments:			
Test equipment (Gm)	AS		
INVITE →			
403 Forbidden ←			
ACK →			

TSS	TP	CUG reference	Selection expression
CUG/originating_AS/No CUG	CUG_N07_004	Clause 4.5.2.4 of	PICS 4.5.1/2
		[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test purpose			
No CUG: INVITE without CUG index a	and with outgoingAccessRequest :	= true, unsuccessful.	
Ensure that the SUT on receipt of an II	NVITE request containing an xml	element cug with	
cugCallOperation containing	1		
outgoingAccessReques			
rejects the INVITE request by sending	a 403 Forbidden.		
Preconditions: Originating user has	not subscribed to CUG		
SIP header values:			
INVITE:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
	est>TRUE <td>est></td> <td></td>	est>	
403 Forbidden			
Reason:			
Comments:			
Test equipment (Gm)	AS		
INVITE	→		
403 Forbidden	←		
ACK	→		

7.2.2 Actions at the AS of the terminating user

TSS

7.2.2.1 CUG with outgoing access (OA) not allowed

TSS CUG/ terminating _AS/CUG with OA not allowed	TP CUG_N08_001	CUG reference Clause 4.5.2.10 of	Selection expression PICS 4.5.1/2
COG/ terminating _AS/COG with OA hot allowed	COG_NOS_001	[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test purpose			
CUG with IA not allowed: INVITE with interlock cod	de matching regist	ered CUG index and	without outgoing access,
successful.			
Ensure that the SUT on receipt of an INVITE request		element cug with	
cugInterlockBinaryCode related to registere	ed CUG index,		
networkIndicator (PIXIT) and	10		
cugCommunicationIndicator set to "11" (CL		g access),	
forwards an INVITE request containing no xml eleme			
Preconditions: Terminating user has subscribed Options for registered CUG index:	to CUG		
Intra CUG restrictions: None designated (-I	CB)		
Options for public identity in use:	СБ)		
Incoming access: not allowed			
SIP header values:			
INVITE1:			
<cug></cug>			
<networkindicator< td=""><td>>[PIXIT]<!--</td--><td></td><td>networkIndicator></td></td></networkindicator<>	>[PIXIT] </td <td></td> <td>networkIndicator></td>		networkIndicator>
<pre><cuginterlockbinarycode>[related to</cuginterlockbinarycode></pre>	registered	CUG index1<	:/cugInterlockBinaryCode>
<cugcommunicationindicator>11</cugcommunicationindicator>			
INVITE2:			
No XML <cug> element</cug>			
Comments:			
Test equipment (ISC, Mw)	AS	Test equipment	(Gm)
INVITE1 →	-	NVITE2	

CUG/ terminating _AS/CUG with OA not allowed	CUG_N08_002	Clause 4.5.2.10 of [ITU-T Q.3627 v.1]	PICS 4.5.1/2 [ITU-T Q.4011.1 v.1]
Test purpose			-
CUG with IA not allowed and ICB: INVITE with interl	lock code matchir	ng registered CUG in	ndex and without outgoing
access, unsuccessful.			
Ensure that the SUT on receipt of an INVITE request c	ontaining an xml	element cug with	
cugInterlockBinaryCode related to registered	CUG index,		
networkIndicator (PIXIT) and			
cugCommunicationIndicator set to "11" (CUC	without outgoing	access),	
rejects the INVITE request by sending a 603 Decline d	ue to incoming ca	lls barred.	
Preconditions: Terminating user has subscribed to	CUG		
Options for registered CUG index:			
Intra CUG restrictions: ICB			
Options for public identity in use:			
Incoming access: not allowed			
SIP header values:			
INVITE:			
<cug></cug>			
<networkindicator< td=""><td>>[PIXIT]<!--</td--><td></td><td>networkIndicator></td></td></networkindicator<>	>[PIXIT] </td <td></td> <td>networkIndicator></td>		networkIndicator>
<pre><cuginterlockbinarycode>[related to</cuginterlockbinarycode></pre>	registered	CUG index]<	/cugInterlockBinaryCode>
<cugcommunicationindicator>11</cugcommunicationindicator> 11 <td>•</td> <td>_</td> <td>,</td>	•	_	,
Comments:			
Test equipment (ISC, Mw)	AS		
INVITE -			
603 Decline			
ACK →			

TP

CUG reference

Selection expression

TSS	TP	CUG reference	Selection expression
CUG/ terminating _AS/CUG with OA not allowed	CUG_N08_003	Clause 4.5.2.10 of	PICS 4.5.1/2
		[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test purpose		-	-
CUG with IA not allowed: INVITE with interlock code unsuccessful.	not matching regis	stered CUG index and	d without outgoing access,
Ensure that the SUT on receipt of an INVITE request of cugInterlockBinaryCode not related to regist networkIndicator (PIXIT) and cugCommunicationIndicator set to "11" (CUG	ered CUG index,	·	
rejects the INVITE request by sending a 403 Forbidde			
Preconditions: Terminating user has subscribed t	o CUG		
Options for public identity in use:			
Incoming access: not allowed			
SIP header values:			
INVITE:			
<cug></cug>			
<networkindicator< td=""><td>>[PIXIT]<!--</td--><td></td><td>networkIndicator></td></td></networkindicator<>	>[PIXIT] </td <td></td> <td>networkIndicator></td>		networkIndicator>
<pre><cuginterlockbinarycode>[not related <cugcommunicationindicator>11</cugcommunicationindicator></cuginterlockbinarycode></pre>	to registered runicationIndicate		c/cugInterlockBinaryCode>
Comments:			
Test equipment (ISC, Mw)	AS		
INVITE →			
403 Forbidden ←			
ACK →			

TSS	TP	CUG reference	Selection expression
CUG/ terminating _AS/CUG with OA not allowed	CUG_N08_004		PICS 4.5.1/2
		[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test purpose	•	1.	
CUG with IA allowed: INVITE with interlock code if	matching register	red CUG index and	without outgoing access,
successful.			
Ensure that the SUT on receipt of an INVITE request c	ontaining an xml	element cug with	
cugInterlockBinaryCode related to registered	CUG index,		
networkIndicator (PIXIT) and			
cugCommunicationIndicator set to "11" (CUG		g access),	
forwards an INVITE request containing no xml element			
Preconditions: Terminating user has subscribed to	CUG		
Options for registered CUG index:			
Intra CUG restrictions: None designated (-IC	B)		
Options for public identity in use:			
Incoming access: allowed			
SIP header values:			
INVITE1:			
<cug></cug>			
<networkindicator>[PIXIT]<!-- networkIndicator</td--><td></td><td></td><td></td></networkindicator>			
<cuginterlockbinarycode>[related to register</cuginterlockbinarycode>			de>
<cugcommunicationindicator>11</cugcommunicationindicator>	nunicationIndicate	or>	
INVITE2:			
No XML <cug> element</cug>			
Comments:			
Test equipment (ISC, Mw)	AS	Test equipment	(Gm)
INVITE1 →)	INVITE2	

TSS	TP	CUG reference	Selection expression
CUG/ terminating _AS/CUG with OA not allowed	CUG_N08_005	Clause 4.5.2.10 of	PICS 4.5.1/2
-		[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test purpose			
CUG with IA allowed and ICB: INVITE with interlock of unsuccessful.	code matching regi	stered CUG index an	d without outgoing access,
Ensure that the SUT on receipt of an INVITE request	containing an xml	element cug with	
cugInterlockBinaryCode related to registere		Ü	
networkIndicator (PIXIT) and	·		
cugCommunicationIndicator set to "11" (CL	JG without outgoing	g access),	
rejects the INVITE request by sending a 603 Decline			
Preconditions: Terminating user has subscribed			
Options for registered CUG index:			
Intra CUG restrictions: ICB			
Options for public identity in use:			
Incoming access: allowed			
SIP header values:			
INVITE:			
<cug></cug>			
<networkindicator< td=""><td>>[PIXIT]<!--</td--><td></td><td>networkIndicator></td></td></networkindicator<>	>[PIXIT] </td <td></td> <td>networkIndicator></td>		networkIndicator>
<pre><cuginterlockbinarycode>[related to</cuginterlockbinarycode></pre>	registered	CUG index1<	<pre></pre>
<cugcommunicationindicator>11</cugcommunicationindicator>			,
Comments:			
Test equipment (ISC, Mw)	AS		
INVITE -			
603 Decline ←			
ACK →			

TSS	TP	CUG reference	Selection expression
CUG/ terminating _AS/CUG with OA not allowed	CUG_N08_006	Clause 4.5.2.10 of	PICS 4.5.1/2
-		[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test purpose			
CUG with IA allowed: INVITE with interlock code unsuccessful.	not matching registe	ered CUG index and	without outgoing access,
Ensure that the SUT on receipt of an INVITE reque	st containing an xml	element cug with	
cugInterlockBinaryCode not related to reg	gistered CUG index,		
networkIndicator (PIXIT) and			
cugCommunicationIndicator set to "11" (0	CUG without outgoing	g access),	
rejects the INVITE request by sending a 403 Forbio	lden due to not matcl	hed CUG index.	
Preconditions: Terminating user has subscribe	ed to CUG		
Options for public identity in use:			
Incoming access: allowed			
SIP header values:			
INVITE:			
<cug></cug>			
<networkindicator< td=""><td>>[PIXIT]<!--</td--><td></td><td>networkIndicator></td></td></networkindicator<>	>[PIXIT] </td <td></td> <td>networkIndicator></td>		networkIndicator>
<cuginterlockbinarycode>[not related</cuginterlockbinarycode>	d to registered	d CUG index]-	
<cugcommunicationindicator>11</cugcommunicationindicator> 11 <td>mmunicationIndicate</td> <td>or></td> <td></td>	mmunicationIndicate	or>	
Comments:			
Test equipment (ISC, Mw)	AS		
INVITE →			
403 Forbidden ←			
ACK →			

TSS	TP	CUG reference	Selection expression
CUG/ terminating _AS/CUG with OA not allowed	CUG_N08_007	Clause 4.5.2.10 of	PICS 4.5.1/2
		[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test purpose			
No CUG: INVITE with interlock code and without out	going access, unsu	ccessful.	
Ensure that the SUT on receipt of an INVITE request	t containing an xml	element cug with	
cugInterlockBinaryCode,			
networkIndicator (PIXIT) and			
cugCommunicationIndicator set to "11" (Cl	JG without outgoing	g access),	
rejects the INVITE request by sending a 403 Forbidd	len due to 'Outgoing	g access not allowed	
Preconditions: Terminating user has not subscribe	d to CUG		
SIP header values:			
INVITE:			
<cug></cug>			
<networkindicator< td=""><td>>[PIXIT]<!--</td--><td></td><td>networkIndicator></td></td></networkindicator<>	>[PIXIT] </td <td></td> <td>networkIndicator></td>		networkIndicator>
<pre><cuginterlockbinarycode>[related t</cuginterlockbinarycode></pre>	to any	CUG index]	
<cugcommunicationindicator>11</cugcommunicationindicator>	nmunicationIndicate	or>	
Comments:			
Test equipment (ISC, Mw)	AS		
INVITE →			
403 Forbidden ←			
ACK →			

7.2.2.2 CUG with OA allowed

TSS	TP	CUG reference	Selection expression
CUG/ terminating _AS/CUG with OA allowed	CUG_N09_001	Clause 4.5.2.10 of	PICS 4.5.1/2
-		[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test purpose			
CUG with IA not allowed: INVITE with interlock	code matching regi	stered CUG index a	nd with outgoing access,
successful.			
Ensure that the SUT on receipt of an INVITE reques	st containing an xml	element cug with	
cugInterlockBinaryCode related to register	red CUG index,		
networkIndicator (PIXIT) and			
cugCommunicationIndicator set to "10" (C		ccess),	
forwards an INVITE request containing no xml elem-			
Preconditions: Terminating user has subscribed	d to CUG		
Options for registered CUG index:			
Intra CUG restrictions: None designated (-	-ICB)		
Options for public identity in use:			
Incoming access: not allowed			
SIP header values:			
INVITE1:			
<cug></cug>			
<networkindicator< td=""><td>>[PIXIT]<!--</td--><td></td><td>networkIndicator></td></td></networkindicator<>	>[PIXIT] </td <td></td> <td>networkIndicator></td>		networkIndicator>
<cuginterlockbinarycode>[related to]</cuginterlockbinarycode>			c/cugInterlockBinaryCode>
<cugcommunicationindicator>10</cugcommunicationindicator>	mmunicationIndicate	or>	
INVITE2:			
==.			
No XML <cug> element</cug>			
Comments:	40	Tool onuine and	(Cm)
Test equipment (ISC, Mw)	AS	Test equipment	(Gm)
INVITE1 →)	INVITE2	

TSS	TP	CUG reference	Selection expression
CUG/ terminating _AS/CUG with OA allowed	CUG_N09_002	Clause 4.5.2.10 of	PICS 4.5.1/2
		[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test purpose			
CUG with IA not allowed and ICB: INVITE with interloc	k code matching r	egistered CUG index	and with outgoing access,
unsuccessful.			
Ensure that the SUT on receipt of an INVITE request of		element cug with	
cugInterlockBinaryCode related to registered	I CUG index,		
networkIndicator (PIXIT) and			
cugCommunicationIndicator set to "10" (CUC			
rejects the INVITE request by sending a 603 Decline d		lls barred.	
Preconditions: Terminating user has subscribed to	o CUG		
Options for registered CUG index:			
Intra CUG restrictions: ICB			
Options for public identity in use:			
Incoming access: not allowed			
SIP header values:			
INVITE:			
<cug></cug>			
<networkindicator< td=""><td>>[PIXIT]<!--</td--><td></td><td>networkIndicator></td></td></networkindicator<>	>[PIXIT] </td <td></td> <td>networkIndicator></td>		networkIndicator>
<cuginterlockbinarycode>[related to</cuginterlockbinarycode>	registered		:/cugInterlockBinaryCode>
<cugcommunicationindicator>10</cugcommunicationindicator> 10 <td>nunicationIndicato</td> <td>or></td> <td></td>	nunicationIndicato	or>	
Comments:			
Test equipment (ISC, Mw)	AS		
INVITE -			
603 Decline			
ACK →			

			lavia d	Ia
TSS		TP	CUG reference	Selection expression
CUG/ ter	minating _AS/CUG with OA allowed	CUG_N09_003	Clause 4.5.2.10 of	PICS 4.5.1/2
			[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test pur	pose			
CUG with	h IA not allowed: INVITE with interlock code esful.	not matching reg	gistered CUG index a	and with outgoing access,
Ensure th	at the SUT on receipt of an INVITE request o	ontaining an xml	element cug with	
	cugInterlockBinaryCode not related to registe	ered CUG index,		
	networkIndicator (PIXIT) and			
	cugCommunicationIndicator set to "10" (CUC	with outgoing ac	ccess),	
rejects th	e INVITE request by sending a 403 Forbidder			
Precond				
	Options for public identity in use:			
	Incoming access: not allowed			
SIP head	ler values:			
INVITE:				
<cug></cug>				
Tougz	<networkindicator< td=""><td>>[PIXIT]<!--</td--><td></td><td>networkIndicator></td></td></networkindicator<>	>[PIXIT] </td <td></td> <td>networkIndicator></td>		networkIndicator>
	<pre><cuginterlockbinarycode>[not related</cuginterlockbinarycode></pre>	to registered	CUG index]<	/cugInterlockBinaryCode>
	<cugcommunicationindicator>10</cugcommunicationindicator>	•	_	/cugintenockbinarycode/
	Cagooninanicationinalcator/100/cagoonii	numeationmulcate		
Commer	to.			
• • • • • • • • • • • • • • • • • • • •		AS		
	ipment (ISC, Mw)	AS		
INVITE	÷			
403 Forb				
ACK	→			

TSS	TP	CUG reference	Selection expression				
CUG/ terminating _AS/CUG with OA allowed	CUG_N09_004	Clause 4.5.2.10 of	PICS 4.5.1/2				
		[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]				
Test purpose							
	CUG with IA allowed: INVITE with interlock code matching registered CUG index and with outgoing access, successful.						
Ensure that the SUT on receipt of an INVITE request co		element cug with					
cugInterlockBinaryCode related to registered	CUG index,						
networkIndicator (PIXIT) and							
cugCommunicationIndicator set to "10" (CUG		cess),					
forwards an INVITE request containing no xml element							
Preconditions: Terminating user has subscribed to	CUG						
Options for registered CUG index:							
Intra CUG restrictions: None designated (-ICI	3)						
Options for public identity in use:							
Incoming access: allowed							
SIP header values:							
INVITE1:							
<cug></cug>							
<networkindicator< td=""><td>>[PIXIT]<!--</td--><td></td><td>networkIndicator></td></td></networkindicator<>	>[PIXIT] </td <td></td> <td>networkIndicator></td>		networkIndicator>				
<pre><cuginterlockbinarycode>[related to</cuginterlockbinarycode></pre>	registered	_	/cugInterlockBinaryCode>				
<pre><cugcommunicationindicator>10</cugcommunicationindicator></pre>	unicationIndicato	r>					
W 10 (1750)							
INVITE2:							
No XML <cug> element</cug>							
Comments:			(5.)				
Test equipment (ISC, Mw) AS Test equipment (Gm)							
INVITE1 →	→	INVITE2					

TSS		TP	CUG reference	Selection expression
CUG/ ter	minating _AS/CUG with OA allowed	CUG_N09_005	Clause 4.5.2.10 of	PICS 4.5.1/2
			[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test pur	pose			
CUG wit	h IA allowed and ICB: INVITE with interlock iul.	code matching re	egistered CUG index	and with outgoing access,
Ensure tl	nat the SUT on receipt of an INVITE request	containing an xml	element cug with	
	cugInterlockBinaryCode related to registere	d CUG index,	· ·	
	networkIndicator (PIXIT) and	Oithtm.im.m.a.	\	
.	cugCommunicationIndicator set to "10" (CU		ccess),	
	an INVITE request containing no xml element			
Precond		to CUG		
	Options for registered CUG index:			
	Intra CUG restrictions: ICB			
	Options for public identity in use:			
	Incoming access: allowed			
	der values:			
INVITE1:				
<cug></cug>				
	<networkindicator< td=""><td>>[PIXIT]<!--</td--><td></td><td>networkIndicator></td></td></networkindicator<>	>[PIXIT] </td <td></td> <td>networkIndicator></td>		networkIndicator>
	<pre><cuginterlockbinarycode>[related to <cugcommunicationindicator>10</cugcommunicationindicator></cuginterlockbinarycode></pre>	registered municationIndicate		
INVITE2	•			
No XML	<cug> element</cug>			
Comme				
Test equ	ipment (ISC, Mw)	AS	Test equipment	t (Gm)
INVITE1	· · · · · · · · · · · · · · · · · · ·	-	• •	•

TSS	TP	CUG reference	Selection expression
CUG/ terminating _AS/CUG with OA allowed	CUG_N09_006	Clause 4.5.2.10 of	PICS 4.5.1/2
_		[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test purpose			
CUG with IA allowed: INVITE with interlock code n	ot matching regis	stered CUG index a	nd with outgoing access,
successful.			
Ensure that the SUT on receipt of an INVITE request c	ontaining an xml	element cug with	
cugInterlockBinaryCode not related to registe	ered CUG index,		
networkIndicator (PIXIT) and			
cugCommunicationIndicator set to "10" (CUC	3 with outgoing ac	cess),	
forwards an INVITE request containing no xml element			
Preconditions: Terminating user has subscribed to	o CUG		
Options for public identity in use:			
Incoming access: allowed			
SIP header values:			
INVITE1:			
<cug></cug>			
<networkindicator< td=""><td>>[PIXIT]<!--</td--><td></td><td>networkIndicator></td></td></networkindicator<>	>[PIXIT] </td <td></td> <td>networkIndicator></td>		networkIndicator>
<pre><cuginterlockbinarycode>[not related</cuginterlockbinarycode></pre>	to registered		:/cugInterlockBinaryCode>
<cugcommunicationindicator>10</cugcommunicationindicator> 10 <td>nunicationIndicato</td> <td>r></td> <td></td>	nunicationIndicato	r>	
INVITE2:			
No XML <cug> element</cug>			
Comments:			
Test equipment (ISC, Mw)	AS	Test equipment	(Gm)
INVITE1 →	→	INVITE2	

TSS	TP	CUG reference	Selection expression
CUG/ terminating _AS/CUG with OA allowed	CUG_N09_007		PICS 4.5.1/2
2007 terrimating _7 to/000 with or tallowed	000_1100_007	[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test purpose		[[[[]
No CUG: INVITE with interlock code and with outg	oing access, success	sful	
Ensure that the SUT on receipt of an INVITE reque			
cugInterlockBinaryCode,	oc containing an Am	olollioni oug mili	
networkIndicator (PIXIT) and			
cugCommunicationIndicator set to "10" (CUG with outgoing a	ccess)	
forwards an INVITE request containing no xml eler		00000),	
Preconditions: Terminating user has not subscrib			
SIP header values:			
INVITE1:			
<cug></cug>			
<networkindicator< td=""><td>>[PIXIT]<!--</td--><td></td><td>networkIndicator></td></td></networkindicator<>	>[PIXIT] </td <td></td> <td>networkIndicator></td>		networkIndicator>
<pre><cuginterlockbinarycode>[related</cuginterlockbinarycode></pre>	to any	CUG index1-	
<pre><cugcommunicationindicator>10</cugcommunicationindicator></pre>	,		, oughnoncondinary codes
	o minamouno minamoun	017	
7-4-5			
INVITE2:			
No XML <cug> element</cug>			
Comments:			
Test equipment (ISC, Mw)	equipment (ISC, Mw) AS Test equipment (Gm)		
INVITE1 →	-		,

7.2.2.3 No CUG

TSS	TP	CUG reference	Selection expression
CUG/ terminating _AS/No CUG	CUG_N10_001	Clause 4.5.2.10 of	PICS 4.5.1/2
		[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test purpose			
CUG with IA not allowed: INVITE without xml element	cug, unsuccessfu	l.	
Ensure that the SUT on receipt of an INVITE request of	containing no xml	element cug,	
rejects the INVITE request by sending a 403 Forbidde	n.		
Preconditions: Terminating user has subscribed to	o CUG		
Options for public identity in use:			
Incoming access: not allowed			
SIP header values:			
INVITE:			
No xml element <cug></cug>			
Comments:			
Test equipment (ISC)	AS		
INVITE →			
403 Forbidden ←			
ACK →			

TSS	TP	CUG reference	Selection expression
CUG/ terminating _AS/No CUG	CUG_N10_002	Clause 4.5.2.10 of	PICS 4.5.1/2
5 –		[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test purpose			•
CUG with IA allowed: INVITE without xml element cug	, successful.		
Ensure that the SUT on receipt of an INVITE request of	ontaining no xml	element cug,	
forwards an INVITE request containing no xml element	t cug.		
Preconditions: Terminating user has subscribed to	o CUG		
Options for public identity in use:			
Incoming access: allowed			
SIP header values:			
INVITE1:			
No xml element <cug></cug>			
INVITE2:			
No XML <cug> element</cug>			
Comments:			
Test equipment (ISC, Mw)	AS	Test equipment	(Gm)
INVITE1 →	→	INVITE2	

7.3 Interaction with other services

7.3.1 Conference calling (CONF)

TSS	TP	CUG reference	Selection expression
CUG/Services/CONF	CUG_N11_001	Clause 4.6.6 of	PICS 4.7.1/7
		[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test purpose			
CUG with OA not allowed: First added conferee join			
Ensure that on receipt of an INVITE request contain	ning an xml element	cug with	
cugCallOperation containing			
registered CUGIndex,			
the conference focus allows to join the created conf		onferee.	
Preconditions: Originating user has subscribed			
Options for registered and preferred C			
Intra CUG restrictions: None designated	(-OCB)		
Options for public identity in use:			
Preferential CUG: None designated			
Outgoing access: not allowed			
SIP header values:			
INVITE:			
Request Line <conference uri=""></conference>			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<pre><outgoingaccessrequest>FALSE</outgoingaccessrequest></pre>			
<cuglndex>[registered</cuglndex>	CUG	i	index]
Comments:	AS		
Test equipment (Gm)		a ta d	
INVITE →	rence is already cre	aleu	
200 OK			
200 ON T			

TSS	TP	CUG reference	Selection expression
CUG/Services/CONF	CUG_N11_002	Clause 4.6.6 of	PICS 4.7.1/7
		[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test purpose			
CUG with OA not allowed: Subsequent conferee adde	d to the conferenc	ce, successful.	
Ensure that on receipt of an INVITE request containing	an xml element o	cug with	
cugCallOperation containing		-	
registered CUGIndex,			
the conference focus allows to join the created conference	ence as a subsec	quent conferee and be	elongs to the same closed
user group.		•	G
Preconditions: Originating user has subscribed to	CUG		
Options for registered and preferred CUG			
Intra CUG restrictions: None designated (-O			
Options for public identity in use:	,		
Preferential CUG: None designated			
Outgoing access: not allowed			
SIP header values:			
INVITE:			
Request Line <conference uri=""></conference>			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<pre><outgoingaccessrequest>FALSE</outgoingaccessrequest></pre>	aoinaAccessReau	uest>	
<cuglndex>[registered</cuglndex>	CUG		index]
			1,119
Comments:			
Test equipment (ISC, Mw)	AS		
A conferen	ce is already cre	ated	
A CUG user is alre			
INVITE ->	-		
200 OK ←			

7.3.2 Communication Diversion Services (CDIV)

TSS	TP	CUG reference	Selection expression
CUG/Services/CDIV	CUG_N12_001	Clause 4.6.7.1 of	PICS 4.7.1/8
		[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test purpose	•	•	
CUG with OA not allowed: Call setup between o	riginating party an	d forwarding party, o	communication forwarding
unconditional (CFU) successful.			
Ensure that on receipt of an INVITE request containi	ng an xml element	cug with	
cugCallOperation containing			
registered CUGIndex,			
the SUT checks the CUG restrictions for the originati	ng party and the for	warding party and pe	rforms the Communication
Diversion Service CFU.			
Preconditions:			
Originating user has subscribed to CUG			
Options for registered and preferred CU			
Intra CUG restrictions: None designated (-	OCB)		
Options for public identity in use:			
Preferential CUG: None designated			
Outgoing access: not allowed			
Forwarding user has subscribed to CUG			
Options for public identity in use:			
Incoming access: not allowed			
Forwarding user has subscribed to CDIV	(0511)		
Communication Forwarding Unconditional			
Originating party and forwarding party are in the same	ie CUG		
SIP header values:			
INVITE1:			
<cug></cug>			
<pre><cugcalloperation></cugcalloperation></pre>			
<pre><outgoingaccessrequest>FALSE</outgoingaccessrequest></pre>			indeed (accorded as
<cuglndex>[registered</cuglndex>	CUG		index]
Test equipment (Gm)	AS	Test equipment	(ISC Mw)
INVITE1	AO	rest equipment	(130, WW)
\text{\tin}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tint{\text{\tin}\text{\text{\text{\text{\text{\text{\text{\text{\text{\tin}\text{\text{\text{\text{\tinit}\\ \tint{\text{\text{\tinit}\tittt{\text{\text{\text{\tinit}\\ \tint{\text{\text{\text{\tinit}\\ \tittt{\text{\tinit}\tittt{\text{\text{\text{\text{\text{\texi}\tittt{\text{\text{\tinit}\tittt{\text{\titte{\titt{\titt{\titt{\tinit}\tittt{\text{\titte{\titte{\titte{\titte{\titt{\titt{\ti}\titt{\titt{\tittil\titt{\titil\tittit{\tiint{\text{\tiin}\tittitt{\titil\tittit{\tiint{\tiin\tiint{\tiint{\tiint{\tii}\tiint{\tiin}\tittit{\tiin}\tittt{\tiin}\tittt{\tiin}\tiint{\tit	-	NVITE2	
		114111111	

TSS		TP	CUG reference	Selection expression
CUG/Services/CDIV		CUG_N12_002		PICS 4.7.1/8
000/00141000/0214		000_1112_002	[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test purpose			[[110 1 0.3027 7.1]	[[10 Q.+0 1.1 V.1]
CUG with OA not allowed: Call	setun hetween originat	ing party and for	varded-to narty CELL	successful
Ensure that on receipt of an INV				saccessiai.
cugCallOperation con		g arr xirii ciciniciit	cug with	
registered CUGIr				
the SUT checks the CUG restric		narty the forwar	ding party and the for	warded to party (CELI) and
the communication to the forwar	rdod to party is succes	gparty, trie forwari	uling party and the lon	valued-to party (CFO) and
Preconditions:	rueu-to party is succes	Siui.		
Originating user has subscribed	to CLIC			
	ed and preferred CUG	indov		
Options for public id	: None designated (-O	CD)		
Preferential CUG: Nor				
Outgoing access: not				
Forwarding user has subscribed				
Options for public id				
Incoming access: not				
Forwarding user has subscribed		>= \		
	arding Unconditional (C	(FU)		
Forwarded-to user has subscrib				
Options for public id				
Incoming access: not		0110		
Originating party and forwarding				
Originating party and forwarded	-to party are in the sam	ne CUG		
SIP header values:				
INVITE1:				
<cug></cug>				
<cugcalloperation></cugcalloperation>				
	Request>FALSE <td></td> <td></td> <td></td>			
<cugindex>[regis</cugindex>	stered	CUG		index]
Comments:				
Test equipment (Gm)	_	AS	Test equipment	(Gm)
INVITE1	→	_		
		7	▶ INVITE2	

T00		0110	10.1
TSS	TP	CUG reference	Selection expression
CUG/Services/CDIV	CUG_N12_003	Clause 4.6.7.1 of	PICS 4.7.1/8
-		[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test purpose			
CUG with OA not allowed: Call setup between of			unsuccesstul.
Ensure that on receipt of an INVITE request cor	ntaining an xml element o	cug with	
cugCallOperation containing			
registered CUGIndex,			
the SUT checks the CUG restrictions for the orig			
the communication to the forwarded-to party is	unsuccessful. The SU	rejects the INVITE	request by sending a 403
Forbidden due to not matched CUG data.			
Preconditions:			
Originating user has subscribed to CUG			
Options for registered and preferre			
Intra CUG restrictions: None designat	ed (-OCB)		
Options for public identity in use:			
Preferential CUG: None designated			
Outgoing access: not allowed			
Forwarding user has subscribed to CUG			
Options for public identity in use:			
Incoming access: not allowed			
Forwarding user has subscribed to CDIV			
Communication Forwarding Unconditi	onal (CFU)		
Forwarded-to user has subscribed to CUG			
Options for public identity in use:			
Incoming access: not allowed			
Originating party and forwarding party are in the			
Originating party and forwarded-to party are in c	different CUG		
SIP header values:			
INVITE1:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<outgoingaccessrequest>FALS</outgoingaccessrequest>	E <td>uest></td> <td></td>	uest>	
<cuglndex>[registered</cuglndex>	CUG		index]
Comments:			
Test equipment (Gm)	AS		
INVITE1 →			
403 Forbidden			

TSS	TP	CUG reference	Selection expression
CUG/Services/CDIV	CUG_N12_004	Clause 4.6.7.2 of	PICS 4.7.1/8
		[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test purpose			
CUG with OA not allowed: Call setup between originati	ing party and forwa	<i>arding party, c</i> ommur	nication forwarding on busy
(CFB) successful.			
Ensure that on receipt of an INVITE request containing	an xml element و	cug with	
cugCallOperation containing			
registered CUGIndex,			
the SUT checks the CUG restrictions for the originating	g party and the for	warding party and pe	erforms the communication
diversion service CFB.			
Preconditions:			
Originating user has subscribed to CUG			
Options for registered and preferred CUG			
Intra CUG restrictions: None designated (-O	CB)		
Options for public identity in use:			
Preferential CUG: None designated Outgoing access: not allowed			
Forwarding user has subscribed to CUG			
Options for public identity in use:			
Incoming access: not allowed			
Forwarding user has subscribed to CDIV			
Communication Forwarding on Busy user (C	:FB)		
Originating party and forwarding party are in the same			
SIP header values:			
INVITE1:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<pre><outgoingaccessrequest>FALSE</outgoingaccessrequest></pre>	goingAccessRequ	uest>	
<cuglndex>[registered</cuglndex>	CUĠ		index]
Comments:			
	est equipment (G	em) Test	equipment (ISC, Mw)
	NVITE2		
	86 Busy Here		
	CK		
→		→ INVI	TF3

S	TP	CUG reference	Selection expression
IG/Services/CDIV	CUG_N12_005	Clause 4.6.7.2 of	PICS 4.7.1/8
		[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
st purpose			
IG with OA not allowed: Call setup between origin	nating party and forw	varded-to party, CFB	successful.
sure that on receipt of an INVITE request contain	ning an xml element	cug with	
cugCallOperation containing	-	_	
registered CUGIndex,			
SUT checks the CUG restrictions for the originat	ting party, the forward	ding party and the for	warded-to party (CFB) and
communication to the forwarded-to party is succ		0. ,	. , ,
econditions:			
ginating user has subscribed to CUG			
Options for registered and preferred C	UG index:		
Intra CUG restrictions: None designated (
Options for public identity in use:	, 002)		
Preferential CUG: None designated			
Outgoing access: not allowed			
rwarding user has subscribed to CUG			
Options for public identity in use:			
Incoming access: not allowed			
rwarding user has subscribed to CDIV			
Communication Forwarding on Busy user	(CFB)		
rwarded-to user has subscribed to CUG	(0. 2)		
Options for public identity in use:			
Incoming access: not allowed			
ginating party and forwarding party are in the sar	me CLIG		
ginating party and forwarded-to party are in the s			
P header values:	diffe 000		
/ITE1:			
Jg>			
<pre><cugcalloperation></cugcalloperation></pre>			
<pre><ugcanoperation> <ugcanoperation> <</ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></ugcanoperation></pre>	outaoina Access Pear	ioct>	
<pre><pre><pre><cugindex>[registered</cugindex></pre></pre></pre>	outgoingAccessReqt CUG		index]
	000		index]
eug>			
mments:			
ar enniminent (MIII) — AO	Test equipment (G	m) Tost	equipment (Gm)
	Test equipment (GI	m) Test	equipment (Gm)
/ITE1 → →	INVITE2	m) Test	equipment (Gm)
/ITE1 → → ←		m) Test	equipment (Gm)

TSS	TP	CUG reference	Selection expression
CUG/Services/CDIV	CUG_N12_006	Clause 4.6.7.2 of	PICS 4.7.1/8
		[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test purpose			
CUG with OA not allowed: Call setup betwee			unsuccessful.
Ensure that on receipt of an INVITE request	containing an xml element of	cug with	
cugCallOperation containing			
registered CUGIndex,			
the SUT checks the CUG restrictions for the	originating party, the forward	ding party and the for	warded-to party (CFB) and
the communication to the forwarded-to part	y is unsuccessful. The SUT	rejects the INVITE	request by sending a 403
Forbidden due to not matched CUG data.			
Preconditions:			
Originating user has subscribed to CUG			
Options for registered and prefe			
Intra CUG restrictions: None desig	nated (-OCB)		
Options for public identity in use	e:		
Preferential CUG: None designate	d		
Outgoing access: not allowed			
Forwarding user has subscribed to CUG			
Options for public identity in use	e:		
Incoming access: not allowed			
Forwarding user has subscribed to CDIV			
Communication Forwarding on Bu	sy user (CFB)		
Forwarded-to user has subscribed to CUG			
Options for public identity in use	e:		
Incoming access: not allowed			
Originating party and forwarding party are in			
Originating party and forwarded-to party are	in different CUG		
SIP header values:			
INVITE1:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<outgoingaccessrequest>FA</outgoingaccessrequest>	LSE <td>iest></td> <td></td>	iest>	
<cugindex>[registered</cugindex>	CUG		index]
Comments:			
Test equipment (Gm) AS	Test equipment (Gr	n)	
INVITE1 →	→ INVITE2	-	
	→ IINVII∟∠		
	€ 486 Busy Here		

403 Forbidden ACK

TSS	TP	CUG reference	Selection expression
CUG/Services/CDIV	CUG_N12_007	Clause 4.6.7.3 of	PICS 4.7.1/8
		[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test purpose		1	
CUG with OA not allowed: Call setup between	een originating party and for	warding party, comm	unication forwarding on no
reply (CFNR) successful.			•
Ensure that on receipt of an INVITE request	t containing an xml element of	cug with	
cugCallOperation containing			
registered CUGIndex,			
he SUT checks the CUG restrictions for the	originating party and the for	warding party and pe	rforms the Communication
Diversion Service CFNR.			
Preconditions:			
Originating user has subscribed to CUG			
Options for registered and pref			
Intra CUG restrictions: None design			
Options for public identity in us			
Preferential CUG: None designate	∍d		
Outgoing access: not allowed			
Forwarding user has subscribed to CUG			
Options for public identity in us	se:		
Incoming access: not allowed			
Forwarding user has subscribed to CDIV			
Communication Forwarding on no			
Originating party and forwarding party are in	n the same CUG		
SIP header values:			
NVITE1:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<outgoingaccessrequest>F</outgoingaccessrequest>			
<cugindex>[registered</cugindex>	CUG		index]
Comments: Test equipment (Gm) AS	Test equipment (Gr	m) Test	equipment (ISC, Mw)
Comments:	Test equipment (Gr → INVITE2 ← 180 Ringing	m) Test	equipment (ISC, Mw)

→ INVITE3

TSS CUG/Services/CDIV	TP CUG N12 008	CUG reference Clause 4.6.7.3 of	Selection expression PICS 4.7.1/8
000,000,000,000,000		[ITU-T Q.3627 v.	
Test purpose	I.	, , , , , , , , , , , , , , , , , , ,	J 11 J
CUG with OA not allowed: Call setup between original	ating party and forw	arded-to party, CF	NR successful.
Ensure that on receipt of an INVITE request containing			
cugCallOperation containing			
registered CUGIndex,			
the SUT checks the CUG restrictions for the originat	ing party, the forwa	arding party and th	e forwarded-to party (CFNR)
and the communication to the forwarded-to party is s	uccessful.		
Preconditions:			
Originating user has subscribed to CUG			
Options for registered and preferred CU	G index:		
Intra CUG restrictions: None designated (-0	OCB)		
Options for public identity in use:	,		
Preferential CUG: None designated			
Outgoing access: not allowed			
Forwarding user has subscribed to CUG			
Options for public identity in use:			
Incoming access: not allowed			
Forwarding user has subscribed to CDIV			
Communication Forwarding on no Reply (C	FNR)		
Forwarded-to user has subscribed to CUG	,		
Options for public identity in use:			
Incoming access: not allowed			
Originating party and forwarding party are in the sam	e CUG		
Originating party and forwarded-to party are in the sa			
SIP header values:			
INVITE1:			
<cug></cug>			
<pre><cugcalloperation></cugcalloperation></pre>			
<pre>coutgoingAccessRequest>FALSE</pre>	utaoinaAccessReau	iest>	
<pre><cugindex>[registered</cugindex></pre>	CUG	20012	index]
			maski deagmask
Comments:			
	est equipment (G	m) Te	st equipment (Gm)
	VVITE2	,	or oquipmont (Om)
·····	80 Ringing		
		→ IN	VITE3

TSS	TP	CUG reference	Selection expression
CUG/Services/CDIV	CUG_N12_009	Clause 4.6.7.3 of	PICS 4.7.1/8
		[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test purpose			
CUG with OA not allowed: Call setup between origin	nating party and forw	arded-to party, CFNI	R unsuccessful.
Ensure that on receipt of an INVITE request contain	ning an xml element o	cug with	
cugCallOperation containing			
registered CUGIndex,			
the SUT checks the CUG restrictions for the original	ating party, the forwa	arding party and the f	orwarded-to party (CFNF
and the communication to the forwarded-to party is	unsuccessful. The S	UT rejects the INVITE	request by sending a 40
Forbidden due to not matched CUG data.			
Preconditions:			
Originating user has subscribed to CUG			
Options for registered and preferred C			
Intra CUG restrictions: None designated (-OCB)		
Options for public identity in use:			
Preferential CUG: None designated			
Outgoing access: not allowed			
Forwarding user has subscribed to CUG			
Options for public identity in use:			
Incoming access: not allowed			
Forwarding user has subscribed to CDIV			
Communication Forwarding on no Reply ((CFNR)		
Forwarded-to user has subscribed to CUG			
Options for public identity in use:			
Incoming access: not allowed			
Originating party and forwarding party are in the sar			
Originating party and forwarded-to party are in differ	rent CUG		
SIP header values:			
INVITE1:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<pre><outgoingaccessrequest>FALSE</outgoingaccessrequest></pre>			
<cugindex>[registered</cugindex>	CUG		index]
Comments:			
	Test equipment (Gr	m)	
= .	INVITE2		
←	180 Ringing		

← →

403 Forbidden ACK

TSS	TP	CUG reference	Selection expression
CUG/Services/CDIV	CUG_N12_010	Clause 4.6.7.4 of	PICS 4.7.1/8
		[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test purpose	<u>.</u>	-	
CUG with OA not allowed: Call setup	petween originating party and forw	warding party, commi	unication forwarding on not
logged-in (CFNL) successful.			
Ensure that on receipt of an INVITE re	quest containing an xml element of	cug with	
cugCallOperation containing			
registered CUGIndex,			
the SUT checks the CUG restrictions f	or the originating party and the for	warding party and pe	rforms the Communication
Diversion Service CFNL.			
Preconditions:			
Originating user has subscribed to CU	3		
Options for registered and	preferred CUG index:		
Intra CUG restrictions: None	designated (-OCB)		
Options for public identity	in use:		
Preferential CUG: None des	gnated		
Outgoing access: not allowe	t d		
Forwarding user has subscribed to CL	G		
Options for public identity	in use:		
Incoming access: not allowe	d		
Forwarding user has subscribed to CD	IV		
Communication Forwarding	on Not Logged-in (CFNL)		
Originating party and forwarding party	are in the same CUG		
SIP header values:			
INVITE1:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<outgoingaccessreque< td=""><th>st>FALSE<td>uest></td><td></td></th></outgoingaccessreque<>	st>FALSE <td>uest></td> <td></td>	uest>	
<cuglndex>[registered</cuglndex>	CUĠ		index]
Comments:			
Test equipment (Gm)	AS	Test equipment	t (ISC, Mw)
INVITE1	→		-

→ INVITE2

TSS	TP	CUG reference	Selection expression
CUG/Services/CDIV	CUG_N12_011		PICS 4.7.1/8
000,00111000,0211	000_1112_011	[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test purpose	<u> </u>	[[[[]
CUG with OA not allowed: Call setup between originati	ing party and for	warded-to party CFNI	successful
Ensure that on receipt of an INVITE request containing			Cadoodoran.
cugCallOperation containing	, an Ann Gromone	oug man	
registered CUGIndex,			
the SUT checks the CUG restrictions for the originatin	a party the forw	arding party and the f	forwarded-to party (CENL)
and the communication to the forwarded-to party is suc		arang party and the i	orwarded to party (Or 112)
Preconditions:	700001a11		
Originating user has subscribed to CUG			
Options for registered and preferred CUG	index:		
Intra CUG restrictions: None designated (-Od			
Options for public identity in use:	55)		
Preferential CUG: None designated			
Outgoing access: not allowed			
Forwarding user has subscribed to CUG			
Options for public identity in use:			
Incoming access: not allowed			
Forwarding user has subscribed to CDIV			
Communication Forwarding on Not Logged-in	n (CFNL)		
Forwarded-to user has subscribed to CUG	(01112)		
Options for public identity in use:			
Incoming access: not allowed			
Originating party and forwarding party are in the same	CUG		
Originating party and forwarded-to party are in the same			
SIP header values:			
INVITE1:			
<pre><cug></cug></pre>			
<pre><cugcalloperation></cugcalloperation></pre>			
<pre><outgoingaccessrequest>FALSE</outgoingaccessrequest></pre>	aoinaAccessRea	uest>	
<pre><cuglndex>[registered</cuglndex></pre>	CUG		index]
Comments:			
Test equipment (Gm)	AS	Test equipment	(Gm)
INVITE1 →			
	-	NVITE2	

TSS	ТР	CUG reference	Selection expression
CUG/Services/CDIV	CUG_N12_012	Clause 4.6.7.4 of	PICS 4.7.1/8
COG/Services/CDTV	COG_N12_012	[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Took numace		[[110-1 Q.3027 V.1]	[[110-1 Q.4011.1 V.1]
Test purpose	tion or to a substitute of the survey	vandad ta nambi. OFNI	
CUG with OA not allowed: Call setup between originat			_ unsuccessiui.
Ensure that on receipt of an INVITE request containing	j an xmi element	cug with	
cugCallOperation containing			
registered CUGIndex,			
the SUT checks the CUG restrictions for the originating			
and the communication to the forwarded-to party is uns	successful. The S	UT rejects the INVITE	request by sending a 403
Forbidden due to not matched CUG data.			
Preconditions:			
Originating user has subscribed to CUG			
Options for registered and preferred CUG			
Intra CUG restrictions: None designated (-O	CB)		
Options for public identity in use:			
Preferential CUG: None designated			
Outgoing access: not allowed			
Forwarding user has subscribed to CUG			
Options for public identity in use:			
Incoming access: not allowed			
Forwarding user has subscribed to CDIV			
Communication Forwarding on Not Logged-i	n (CFNL)		
Forwarded-to user has subscribed to CUG			
Options for public identity in use:			
Incoming access: not allowed			
Originating party and forwarding party are in the same	CUG		
Originating party and forwarded-to party are in differen	t CUG		
SIP header values:			
INVITE1:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<outgoingaccessrequest>FALSE<td>aoinaAccessRea</td><td>uest></td><td></td></outgoingaccessrequest>	aoinaAccessRea	uest>	
<cuglndex>[registered</cuglndex>	CUĠ		index]
			1 1 1 3
Comments:			
Test equipment (Gm)	AS		
INVITE1 →	- -		
403 Forbidden ←			
ACK →			
non ,			

TSS	TP	CUG reference	Selection expression
CUG/Services/CDIV	CUG_N12_013	Clause 4.6.7.5 of	PICS 4.7.1/8
		[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test purpose			
CUG with OA not allowed: Call setup betwee			successful.
Ensure that on receipt of an INVITE request of	containing an xml element	cug with	
cugCallOperation containing			
registered CUGIndex,			
the SUT checks the CUG restrictions for the	originating party and the for	warding party and pe	rforms the Communicatio
Diversion Service CFNRc.	0 01 7	0. , .	
Preconditions:			
Originating user has subscribed to CUG			
Options for registered and prefer	rred CUG index:		
Intra CUG restrictions: None design			
Options for public identity in use			
Preferential CUG: None designated			
Outgoing access: not allowed			
Forwarding user has subscribed to CUG			
Options for public identity in use) :		
Incoming access: not allowed			
Forwarding user has subscribed to CDIV			
Communication Forwarding on Sub	scriber Not Reachable (CF	NRc)	
Originating party and forwarding party are in		- /	
SIP header values:			
INVITE1:			
<cug></cug>			
<pre><cugcalloperation></cugcalloperation></pre>			
<pre><pre><pre><outgoingaccessrequest>FA</outgoingaccessrequest></pre></pre></pre>	LSE <td>iest></td> <td></td>	iest>	
<pre><cugindex>[registered</cugindex></pre>	CUG	20017	index]
	000		"Idox] \daginaex
Comments:			
Test equipment (Gm) AS	Test equipment (G	m) Test	equipment (ISC, Mw)
INVITE1 →	→ INVITE2	,	-qp (,)
		→ INVI	TEO

TSS	TP	CUG reference	e Selection expression
CUG/Services/CDIV	CUG_N12_014	Clause 4.6.7.5	
		[ITU-T Q.3627	v.1] [ITU-T Q.4011.1 v.1]
Test purpose	1		2 15
CUG with OA not allowed: Call setup between original	ating party and forw	varded-to party.	CFNRc successful.
Ensure that on receipt of an INVITE request containing			
cugCallOperation containing	· ·	· ·	
registered CUGIndex,			
the SUT checks the CUG restrictions for the originati	ng party, the forwa	rding party and	the forwarded-to party (CFNRc
and the communication to the forwarded-to party is s			and to the second of the secon
Preconditions:			
Originating user has subscribed to CUG			
Options for registered and preferred CU	G index:		
Intra CUG restrictions: None designated (-0			
Options for public identity in use:	302)		
Preferential CUG: None designated			
Outgoing access: not allowed			
Forwarding user has subscribed to CUG			
Options for public identity in use:			
Incoming access: not allowed			
Forwarding user has subscribed to CDIV			
Communication Forwarding on Subscriber	Not Reachable (CF	NRc)	
Forwarded-to user has subscribed to CUG			
Options for public identity in use:			
Incoming access: not allowed			
Originating party and forwarding party are in the sam	e CUG		
Originating party and forwarded-to party are in the sa			
SIP header values:	1110 000		
INVITE1:			
<cug></cug>			
<pre><cugcalloperation></cugcalloperation></pre>			
<cugodificition> <outgoingaccessrequest>FALSE</outgoingaccessrequest>FALSE</cugodificition>	itanina Access Real	ioct>	
<pre><cuglndex>[registered</cuglndex></pre>	CUG		index]
	000		index]
Comments:			
	est equipment (G	m)	Test equipment (Gm)
	NVITE2	•••,	root oquipment (Om)
	* V I I L Z		
		→	INVITE3
		7	HAVIILO

TSS	TP	CUG reference	Selection expression
CUG/Services/CDIV	CUG_N12_015	Clause 4.6.7.5 of	PICS 4.7.1/8
		[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test purpose			
CUG with OA not allowed: Call setup between	en originating party and forw	arded-to party, CFNI	Rc unsuccessful.
Ensure that on receipt of an INVITE request	containing an xml element of	cug with	
cugCallOperation containing			
registered CUGIndex,			
the SUT checks the CUG restrictions for the	originating party, the forwar	rding party and the fo	orwarded-to party (CFNRo
and the communication to the forwarded-to p	arty is unsuccessful. The SI	UT rejects the INVITE	Erequest by sending a 403
Forbidden due to not matching CUG data.			
Preconditions:			
Originating user has subscribed to CUG			
Options for registered and prefe			
Intra CUG restrictions: None desig			
Options for public identity in use	e:		
Preferential CUG: None designate	d		
Outgoing access: not allowed			
Forwarding user has subscribed to CUG			
Options for public identity in use	e:		
Incoming access: not allowed			
Forwarding user has subscribed to CDIV			
Communication Forwarding on Sul	bscriber Not Reachable (CF	NRc)	
Forwarded-to user has subscribed to CUG			
Options for public identity in use	e:		
Incoming access: not allowed			
Originating party and forwarding party are in			
Originating party and forwarded-to party are	in different CUG		
SIP header values:			
INVITE1:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<outgoingaccessrequest>FA</outgoingaccessrequest>	LSE <td>uest></td> <td></td>	uest>	
<cuglndex>[registered</cuglndex>	CUG		index]
Comments:			
Test equipment (Gm) AS	Test equipment (Gr	m) Test	equipment (Gm)
INVITE1 →	INVITE2		

403 Forbidden ACK

TSS CUG/Services/CDIV	TP CUG_N12_016	CUG reference Clause 4.6.7.6 of [ITU-T Q.3627 v.1	Selection expression PICS 4.7.1/8] [ITU-T Q.4011.1 v.1]
Test purpose CUG with OA not allowed: Call setup between origin successful. Ensure that on receipt of an INVITE request containing cugCallOperation containing			mmunication deflection (CD)
registered CUGIndex, the SUT checks the CUG restrictions for the originating diversion service CD.	g party and the de	eflecting party and	performs the communication
Preconditions:			
Originating user has subscribed to CUG			
Options for registered and preferred CUG	index:		
Intra CUG restrictions: None designated (-O	CB)		
Options for public identity in use:			
Preferential CUG: None designated			
Outgoing access: not allowed			
Forwarding user has subscribed to CUG			
Options for public identity in use:			
Incoming access: not allowed			
Deflecting user has subscribed to CDIV			
Communication Deflection (CD)	0110		
Originating party and deflecting party are in the same (SIP header values:	JUG		
INVITE1:			
1			
<cug> <cugcalloperation></cugcalloperation></cug>			
<cugoalioperation> <outgoingaccessrequest>FALSE</outgoingaccessrequest>FALSE</cugoalioperation>	anina Access Pear	loct>	
<pre><cuglndex>[registered</cuglndex></pre>	CUG	1631/	index]
	000		index] \degindex>
			ļ
Comments:			
Test equipment (Gm) AS Test INVITE1 → INVITE1 ← 180	st equipment (Gr VITE2 0 Ringing 2 Moved Tempora	•	st equipment (ISC, Mw)
7 AC	'IX		
		→ INI	/ITE3
		2 111	20

TSS CUG/Services/CDIV	TP CUG_N12_017	CUG reference Clause 4.6.7.6 of [ITU-T Q.3627 v.1]	Selection expression PICS 4.7.1/8 [ITU-T Q.4011.1 v.1]
Test purpose CUG with OA not allowed: Call setup between original Ensure that on receipt of an INVITE request containing cugCallOperation containing registered CUGIndex, the SUT checks the CUG restrictions for the origination the communication to the deflected-to party is success	g an xml element on the defle	cug with	
Preconditions: Originating user has subscribed to CUG Options for registered and preferred CUG Intra CUG restrictions: None designated (-O Options for public identity in use: Preferential CUG: None designated Outgoing access: not allowed Deflecting user has subscribed to CUG Options for public identity in use: Incoming access: not allowed Deflected-to user has subscribed to CUG			
Options for public identity in use: Incoming access: not allowed Originating party and deflecting party are in the same Originating party and deflected-to party are in the sam SIP header values: INVITE1:			
<pre><cug></cug></pre>	tgoingAccessRequ CUG	iest>	index]
INVITE1 → → IN ← 18	80 Ringing 92 Moved Tempora		equipment (Gm)
		→ INVI	ГЕ3

	T	T	T
TSS	TP	CUG reference	Selection expression
CUG/Services/CDIV	CUG_N12_018	Clause 4.6.7.6 of	PICS 4.7.1/8
		[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test purpose			
CUG with OA not allowed: Call setup between origina			successful.
Ensure that on receipt of an INVITE request containing	g an xml element	cug with	
cugCallOperation containing			
registered CUGIndex,			
the SUT checks the CUG restrictions for the originati			
the communication to the deflected-to party is unsuc	ccessful. The SUT	rejects the INVITE	request by sending a 403
Forbidden due to not matched CUG data.			
Preconditions:			
Originating user has subscribed to CUG			
Options for registered and preferred CUC			
Intra CUG restrictions: None designated (-C	OCB)		
Options for public identity in use:			
Preferential CUG: None designated			
Outgoing access: not allowed			
Deflecting user has subscribed to CUG			
Options for public identity in use:			
Incoming access: not allowed			
deflected-to user has subscribed to CUG			
Options for public identity in use:			
Incoming access: not allowed			
Originating party and deflecting party are in the same			
Originating party and deflected-to party are in differen	t CUG		
SIP header values:			
INVITE1:			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<pre><outgoingaccessrequest>FALSE</outgoingaccessrequest></pre>			
<cugindex>[registered</cugindex>	CUG		index]
Comments:			
	est equipment (G	m)	
	IVITE2		
	30 Ringing		
	02 Moved Tempora	arily	
→ A0	CK		
403 Forbidden ←			
ACK →			

7.3.3 Explicit communication transfer (ECT)

TSS	TP	CUG reference	Selection expression
CUG/Services/ECT	CUG_N13_001	Clause 4.6.10 of	PICS 4.7.1/9
0 0 0, 0 0 1 11 0 0 0, 2 0 1		[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test purpose		III.	1
CUG with OA not allowed: Communication transfer - tr	ansferor and trans	sferee in the same Cl	JG, successful.
Ensure that on receipt of an INVITE request containing			,
cugCallOperation containing		•	
registered CUGIndex,			
the SUT checks the CUG restrictions for the transferor	and the transfere	e. The communication	n is successful
Preconditions:			
Transferor has subscribed to CUG			
Options for registered and preferred CUG	index:		
Intra CUG restrictions: None designated (-O	CB)		
Options for public identity in use:			
Preferential CUG: None designated			
Outgoing access: not allowed			
Transferee has subscribed to CUG			
Options for registered and preferred CUG	index:		
Intra CUG restrictions: None designated (-O	CB)		
Options for public identity in use:			
Preferential CUG: None designated			
Outgoing access: not allowed			
Transferor and transferee are in the same CUG			
SIP header values:			
INVITE:			
Request Line <conference uri=""></conference>			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<pre><outgoingaccessrequest>FALSE</outgoingaccessrequest></pre>			
<cugindex>[registered</cugindex>	CUG		index]
Comments:	40	Took a mulimina and	(0)
Test equipment (Gm) INVITE →	AS	Test equipment INVITE	(GIII)
1::::::=	→		
180 Ringing ← 200 OK ←	-		
ACK →	+		
AUN		AUN	

TSS	ТР	CUG reference	Selection expression
CUG/Services/ECT	CUG_N13_001	Clause 4.6.10 of	PICS 4.7.1/9
000,001,1000,201	000_1110_001	[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test purpose		[[110 1 0.0027 1.1]	[[10 4.1011.1 v.1]
CUG with OA not allowed: Call communication transfe.	r transferee and tr	ansfer target in the sa	ame CLIG successful blind
transfer.	transferos aria ti	anoror target in the oc	arrio 000, caococorar simia
Ensure that on receipt of an INVITE request containing	an xml element	cua with	
cugCallOperation containing	,		
registered CUGIndex,			
the SUT checks the CUG restrictions for the transfered	and the transfer	target and performs t	he communication transfer
service (Blind transfer).		J 1	
Preconditions:			
Transferor has subscribed to CUG			
Options for registered and preferred CUG	index:		
Intra CUG restrictions: None designated (-O	CB)		
Options for public identity in use:			
Preferential CUG: None designated			
Outgoing access: not allowed			
Transferee has subscribed to CUG			
Options for registered and preferred CUG			
Intra CUG restrictions: None designated (-O	CB)		
Options for public identity in use:			
Preferential CUG: None designated			
Outgoing access: not allowed			
Transferor and transferee are in the same CUG			
SIP header values:			
INVITE1:			
Request Line <conference uri=""></conference>			
<pre><cug></cug></pre>			
<cugcanoperation> <outgoingaccessrequest>FALSE<td>aoina Access Pear</td><td>ioct></td><td></td></outgoingaccessrequest></cugcanoperation>	aoina Access Pear	ioct>	
<pre><cuglndex>[registered</cuglndex></pre>	gonigAccessivequ CUG		index]
	000		index]
Comments:			
	st equipment (G	m) Test	equipment (ISC, Mw)
A communication between t			
REFER →			
202 Accepted ←			
BYE →			
200 OK (BYE) ←			
		INVITE1 → INVI	ΓE2

T00	TD	0110 (0-1
TSS	TP	CUG reference	Selection expression
CUG/Services/ECT	CUG_N13_001	Clause 4.6.10 of	PICS 4.7.1/9
Took warmana		[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Test purpose		al transfer torret in t	ha sama CHC avassativ
CUG with OA not allowed: Call communication tran assured transfer.	isier transieree an	iu transier target in t	ne same COG, successiu
	a an yml alamant	oug with	
Ensure that on receipt of an INVITE request containin cugCallOperation containing	ig an xilli element	cug with	
registered CUGIndex,			
the SUT checks the CUG restrictions for the transfere	o and the transfer	target and performs t	ha communication transfor
service (assured transfer).	e and the transier	target and penorns t	the communication transfer
Preconditions:			
Transferor has subscribed to CUG			
Options for registered and preferred CU	G index:		
Intra CUG restrictions: None designated (-C			
Options for public identity in use:	JOB)		
Preferential CUG: None designated			
Outgoing access: not allowed			
Transferee has subscribed to CUG			
Options for registered and preferred CU	G index:		
Intra CUG restrictions: None designated (-C			
Options for public identity in use:	, ,		
Preferential CUG: None designated			
Outgoing access: not allowed			
Transferor and transferee are in the same CUG			
SIP header values:			
INVITE1:			
Request Line <conference uri=""></conference>			
- <cug></cug>			
<cugcalloperation></cugcalloperation>			
<pre><outgoingaccessrequest>FALSE</outgoingaccessrequest>FALSE</pre>	ıtgoingAccessReq	uest>	
<cuglndex>[registered</cuglndex>	CUĠ	ì	index]
Comments:			
	est equipment (G		equipment (ISC, Mw)
A communication between	transferor and tr	ansferee already ex	its
REFER →			
202 Accepted			

INVITE1 → INVITE2

TSS	TP	CUG reference	Selection expression
CUG/Services/ECT	CUG_N13_001	Clause 4.6.10 of	PICS 4.7.1/9
COO/GetVices/ECT	COG_N13_001	[ITU-T Q.3627 v.1]	[ITU-T Q.4011.1 v.1]
Toot nurnece		[[110-1 Q.3021 V.1]	[[110-1 Q.4011.1 V.1]
Test purpose CUG with OA not allowed: Call Communication tra	anofor transforce or	nd transfer target in t	ha sama CLIC sugasasful
consultative transfer.	ansier transieree ar	id transfer target in t	rie same COG, successiui
Ensure that on receipt of an INVITE request contain	ing an yml alamant	oug with	
cugCallOperation containing	ing an xini element	cug with	
registered CUGIndex,	raa and tha transfar	tarast and norfarms t	be communication transfer
the SUT checks the CUG restrictions for the transfer	ree and the transier	target and performs t	ne communication transfer
service (assured transfer).			
Preconditions:			
Transferor has subscribed to CUG			
Options for registered and preferred Cl			
Intra CUG restrictions: None designated (-OCB)		
Options for public identity in use:			
Preferential CUG: None designated			
Outgoing access: not allowed			
Transferee has subscribed to CUG			
Options for registered and preferred Cl			
Intra CUG restrictions: None designated (-OCB)		
Options for public identity in use:			
Preferential CUG: None designated			
Outgoing access: not allowed			
Transferor and transferee are in the same CUG			
SIP header values:			
INVITE1:			
Request Line <conference uri=""></conference>			
<cug></cug>			
<cugcalloperation></cugcalloperation>			
<pre><outgoingaccessrequest>FALSE</outgoingaccessrequest></pre>	outgoingAccessReq	uest>	
<cuglndex>[registered</cuglndex>	CUG		index]
Comments:			
	Test equipment (G	m) Test	equipment (ISC, Mw)
A communication betwee			
A communication between			
REFER →		3	
202 Accepted			
-			
		INVITE1 → INVI	TF2
			·

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